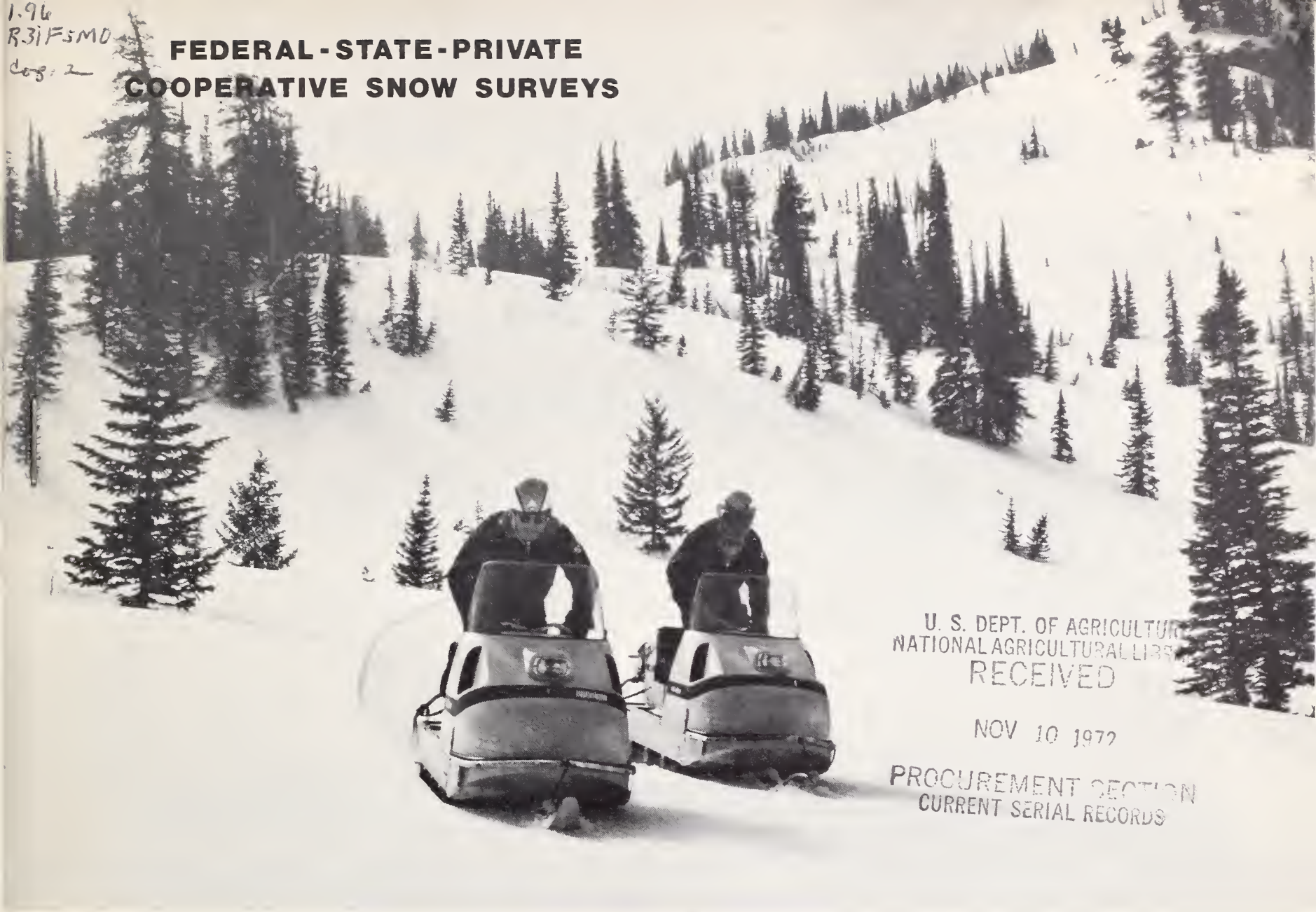


Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY
RECEIVED

NOV 10 1972

PROCUREMENT SECTION
CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK FOR MONTANA

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State, and private organizations listed on the inside back cover of this report.

**SNOW PILLOW RECORDS
1972 WATER YEAR**

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR MONTANA

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||
Released by

A. B. LINFORD

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
Bozeman, Montana

In Cooperation with

J. A. ASLESON

DIRECTOR
Montana Agricultural Experiment Station

|||||
Report prepared by

PHILLIP E. FARNES, Snow Survey Supervisor

and

BERNARD A. SHAFER, Assistant Snow Survey Supervisor

SOIL CONSERVATION SERVICE
P.O. Box 98
Bozeman, Montana 59715

TABLE OF CONTENTS

	Page
MONTANA FALL SUMMARY	1
SOIL MOISTURE	2-5
RESERVOIR STORAGE	6
SNOW PILLOW DATA	
Columbia Drainage	
Kootenai River	
Banfield Mountain	7
Garver Creek	8
Hawkins Lake	9
Poorman Creek	10
Flathead River	
Flattop Mountain	11
Clark Fork River	
Black Pine	12
Hoodoo Basin	13
Lubrecht Flume	14
North Fork Elk Creek	15
Peterson Meadows	16
Bitterroot River	
Saddle Mountain	17
Twelvemile Creek	18
Twin Lakes	19
Missouri Drainage	
Jefferson River	
Rocker Peak	20
Madison River	
Madison Plateau	21
West Yellowstone	22
Gallatin River	
Bangtail	23
Black Bear	24
Bridger Bowl	25
Carrot Basin	26
Lick Creek	27
Maynard Creek	28
Shower Falls	29
Taylor Peaks	30
Tepee Creek	31
Whiskey Creek	32
Missouri Main Stem	
Deadman Creek	33
Milk River	
Rocky Boy	34
Sun-Teton-Marias	
Mount Lockhart	35
Waldron	36
Judith River	
Spur Park	37
Upper Yellowstone River	
Fisher Creek	38
Northeast Entrance	39
MAP, SNOW COURSES AND RELATED DATA MEASURING SITES	
COOPERATORS	Inside Back Cover

MONTANA FALL SUMMARY
October 1, 1972

COLUMBIA RIVER BASIN

Streamflow during the spring and summer months was above average in the northern drainages, and well above average in the Blackfoot, Bitterroot and upper Clark Fork drainages. These above average volumes are a result of the large snowpack accumulation during the winter months.

Spring and summer precipitation at valley stations was a little below average in the Flathead drainages, below average in the Bitterroot and upper Clark Fork areas, and near to above average in the Kootenai drainage.

Recent precipitation was helpful in recharging mountains soils. Reservoir storage is generally near to above average.

MISSOURI RIVER BASIN

Nearly all of the Missouri River drainages had above average runoff for the April through September period. Streamflow in the southwestern drainages of the Jefferson and Madison Rivers was well above average, reflecting the melting of a heavy winter snowpack. Seasonal valley precipitation was generally near to below average in these drainages with more favorable moisture conditions in the easterly drainages.

Generally, mountain soils have a good moisture content as a result of adequate fall precipitation. Nearly all irrigation reservoirs have near to above average storage.

YELLOWSTONE RIVER BASIN

April through September runoff in nearly all Yellowstone River drainages was above average. A good high elevation snowpack sustained late season flows.

Mountain soils generally contain a normal amount of moisture. Seasonal precipitation at valley stations was generally near to above average in the Yellowstone River headwaters. Well above average amounts were recorded downstream.

SOIL MOISTURE

JULY 1, 1972

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	7/01	5.8	6.6	5.3
Murphy Lake R. S.	3000	48	22.6	7/05	19.4	19.9	20.4
Raven R. S.	3050	48	23.0	7/01	13.6	14.7	18.7

Flathead

Desert Mountain	5600	54	8.4	6/26	8.7	9.6	8.6
Marias Pass	5250	54	6.5	6/30	6.7	6.0	5.4

Clark Fork

Black Pine	7100	48	10.0	6/29	8.7	8.7	8.9
Lubrecht Forest	4100	48	26.8		-	-	-
Seeley Lake R. S.	4030	48	11.9	7/05	9.6	-	-
Skalkaho Summit	7260	48	10.8	6/29	9.4	10.0	10.2

Bitterroot

Gibbons Pass	7100	48	7.1	6/30	6.3	6.7	6.5
Lolo Pass	5250	48	10.6	6/26	9.9	9.9	9.6

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	7/02	15.7	16.2	13.5
----------	------	----	------	------	------	------	------

Madison

West Yellowstone	6700	48	6.5	7/02	2.9	3.0	3.0
------------------	------	----	-----	------	-----	-----	-----

Gallatin

Bridger Bowl	7250	48	17.0	6/30	15.8	16.4	16.3
College Site No. 2	4856	54	17.7	6/30	14.7	13.4	12.9
Lick Creek	6860	48	18.8	6/30	17.6	17.5	17.9
Twenty-One Mile	7150	48	10.0	7/02	9.0	9.7	8.7

Missouri Main Stem

Kings Hill	7420	48	11.8	6/30	10.0	10.5	10.8
Stemple Pass	6350	48	5.9	6/30	4.7	4.8	5.1

Milk

Beaver Creek	3950	48	20.9	6/26	9.2	10.0	-
Rocky Boy	4700	36	10.1	6/26	7.7	9.0	-

Yellowstone

Battle Ridge	6020	48	17.6	6/30	12.9	16.4	15.1
Northeast Entrance	7350	48	9.4	6/30	8.7	7.7	9.0

SOIL MOISTURE

AUGUST 1, 1972

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	8/01	4.2	4.1	-
Murphy Lake R. S.	3000	48	22.6	8/01	19.0	19.0	18.9
Raven R. S.	3050	48	23.0			13.2	17.2

Flathead

Desert Mountain	5600	54	8.4	8/01	7.1	6.7	6.5
Marias Pass	5250	54	6.5	7/27	6.8	4.8	4.0

Clark Fork

Black Pine	7100	48	10.0	7/28	8.5	8.0	8.6
Lubrecht Forest	4100	48	26.8			-	-
Seeley Lake R. S.	4030	48	11.9	8/01	7.0	-	-
Skalkaho Summit	7260	48	10.8	7/28	10.4	10.5	10.3

Bitterroot

Gibbons Pass	7100	48	7.1	7/28	4.6	4.3	5.1
Lolo Pass	5250	48	10.6	7/27	7.0	5.9	5.9

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	8/01	13.8	16.7	9.2
----------	------	----	------	------	------	------	-----

Madison

West Yellowstone	6700	48	6.5	8/03	1.9	2.0	-
------------------	------	----	-----	------	-----	-----	---

Gallatin

Bridger Bowl	7250	48	17.0	7/31	15.7	16.0	15.6
College Site No. 2	4856	54	17.7	7/28	11.5	18.5	10.0
Lick Creek	6860	48	18.8	8/01	15.0	14.4	15.3
Twenty-One Mile	7150	48	10.0	8/03	5.6	6.6	5.6

Missouri Main Stem

Kings Hill	7420	48	11.8	8/01	9.5	8.9	9.1
Stemple Pass	6350	48	5.9	8/03	4.0	3.4	4.1

Milk

Beaver Creek	3950	48	20.9	7/21	7.9	6.3	-
Rocky Boy	4700	36	10.1	7/21	8.2	6.7	-

Yellowstone

Battle Ridge	6020	48	17.6	7/31	11.4	12.8	11.4
Northeast Entrance	7350	48	9.4			5.5	6.7

SOIL MOISTURE

OCTOBER 1, 1972

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average †

COLUMBIA RIVER BASINKootenai

Baree Trail	3800	48	7.5	10/02	4.7	4.8	5.2
Murphy Lake R. S.	3000	48	22.6	10/05	18.5	18.4	18.6
Raven R. S.	3050	48	23.0	10/02	13.5	13.1	17.6

Flathead

Desert Mountain	5600	54	8.4	10/02	5.9	-	5.8
Marias Pass	5250	54	6.5	9/26	5.6	3.6	3.9

Clark Fork

Black Pine	7100	48	10.0	9/28	8.3	7.6	7.9
Lubrecht Forest	4100	48	26.8			13.3	-
Seeley Lake R. S.	4030	48	11.9	10/02	4.0	3.9	4.3
Skalkaho Summit	7260	48	10.8	9/28	10.2	9.7	10.2

Bitterroot

Gibbons Pass	7100	48	7.1	9/29	2.8	2.7	4.5
Lolo Pass	5250	48	10.6	9/28	3.7	2.9	4.7

MISSOURI RIVER BASINBeaverhead

Lakeview	6700	48	15.3	10/02	14.4	13.1	6.8
----------	------	----	------	-------	------	------	-----

Madison

West Yellowstone	6700	48	6.5	10/05	3.4	2.5	2.4
------------------	------	----	-----	-------	-----	-----	-----

Gallatin

Bridger Bowl	7250	48	17.0	9/25	15.8	15.9	15.8
College Site No. 2	4860	48	17.7	9/29	10.1	15.2	9.9
Lick Creek	6860	48	18.8	9/28	12.1	15.9	17.0
Twenty-One Mile	7150	48	10.0	10/05	7.6	6.2	4.2

Missouri Main Stem

Kings Hill	7420	48	11.8	9/27	8.7	5.2	7.2
Stemple Pass	6350	48	5.9	9/29	3.5	3.9	3.8

Milk

Beaver Creek	3950	48	20.9	9/29	6.6	6.0	-
Rocky Boy	3950	36	10.1	9/29	6.7	6.2	-

Yellowstone

Battle Ridge	6020	48	17.6	9/25	7.5	8.2	10.3
Northeast Entrance	7350	48	9.4			-	6.4

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
<u>COLUMBIA RIVER BASIN</u>					
Kootenai	Koocanusa	4,965.0	2,844.0	-	-
Flathead	Hungry Horse	3,428.0	3,332.0	3,241.0	3,331.0
	Flathead Lake	1,791.0	1,785.0	1,702.0	1,699.0
	Camas (4)	45.2	29.7	24.2	24.9
	Mission Valley (8)	100.3	20.0	18.3	17.6
Clark Fork	Georgetown Lake	31.0	30.0	30.0	26.7
	Nevada Creek	12.6		2.6	6.5
	Noxon Rapids	334.6	325.9	320.5	321.3
Bitterroot	Como	34.9		3.8	1.9
	Painted Rocks	31.7	28.5	28.0	25.2

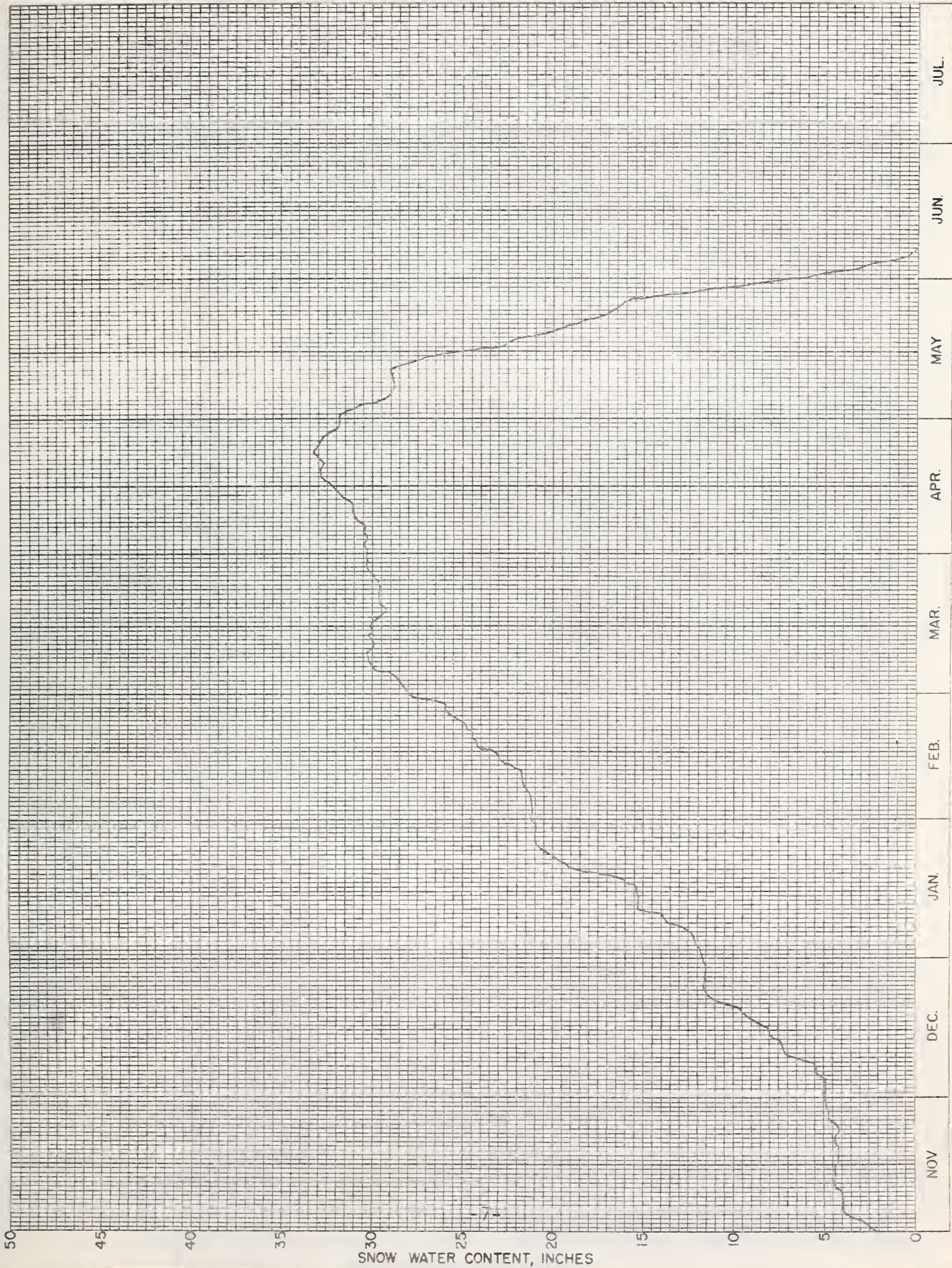
MISSOURI RIVER BASIN

Beaverhead	Clark Canyon	328.0	131.5	137.3	103.0
	Lima	84.0	41.0	42.7	17.3
Ruby	Ruby	38.8	13.7	13.7	8.6
Madison	Hebgen Lake	377.5	357.5	320.9	299.8
	Ennis Lake	41.0	27.2	38.4	36.5
Gallatin	Middle Creek	8.0	2.5	2.6	2.4
Missouri	Canyon Ferry	3,043.0	1,617.0	1,808.0	1,749.0
	Hauser & Helena	61.9	63.0	61.3	58.6
	Lake Helena	10.4	10.9	10.2	9.5
	Holter Lake	81.9	81.1	63.5	75.7
	Smith River	10.7	7.7	3.7	5.2
	Bair (Durand)	7.0	1.6	1.1	3.3
	Martinsdale	23.1	8.8	8.3	6.6
	Deadman's Basin	72.2	35.1	27.2	33.9
	Fort Peck	19,410.0	17,510.0	17,120.0	11,850.0
Sun	Gibson	105.0	40.2	34.5	35.5
	Willow Creek	32.3	20.8	19.5	19.0
	Pishkun	32.0	17.9	19.0	17.1
Marias	Lower Two Medicine	16.6		-	3.5
	Four Horns	19.2		-	11.0
	Swift	30.0	19.8	17.0	13.0
	Lake Frances	112.0	95.3	64.1	83.6
	Tiber	1,347.0	590.7	533.8	689.6
Milk	Fresno	127.2	74.9	37.4	67.8
	Nelson	66.8		33.9	44.1
	Lake Sherburne	66.1	15.7	7.4	7.0
Yellowstone	Mystic Lake	20.8	18.8	18.0	20.4
	Tongue River	68.0	33.0	-	20.6
	Cooney	27.5	16.1	17.3	11.0
Big Horn	Big Horn Lake	1,356.0	1,069.0	1,073.0	-

SNOW PILLOW DATA
WATER YEAR 1972

BANFIELD MOUNTAIN

No. 15A08 Elev. 5600' Drainage Kootenai



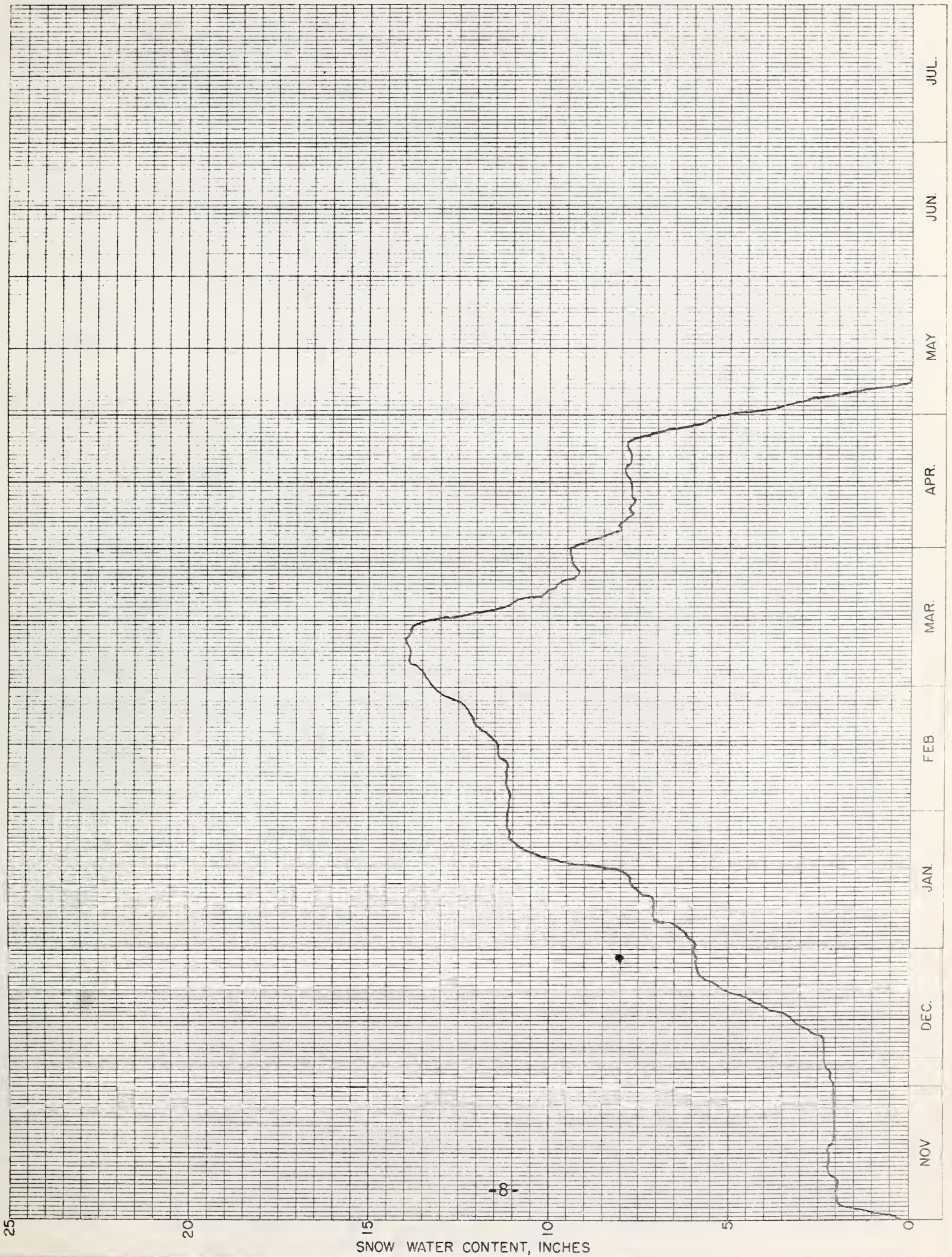
SNOW PILLOW DATA
WATER YEAR 1972

GARVER CREEK

No. 15A05

Elev. 4250'

Drainage. Kootenai



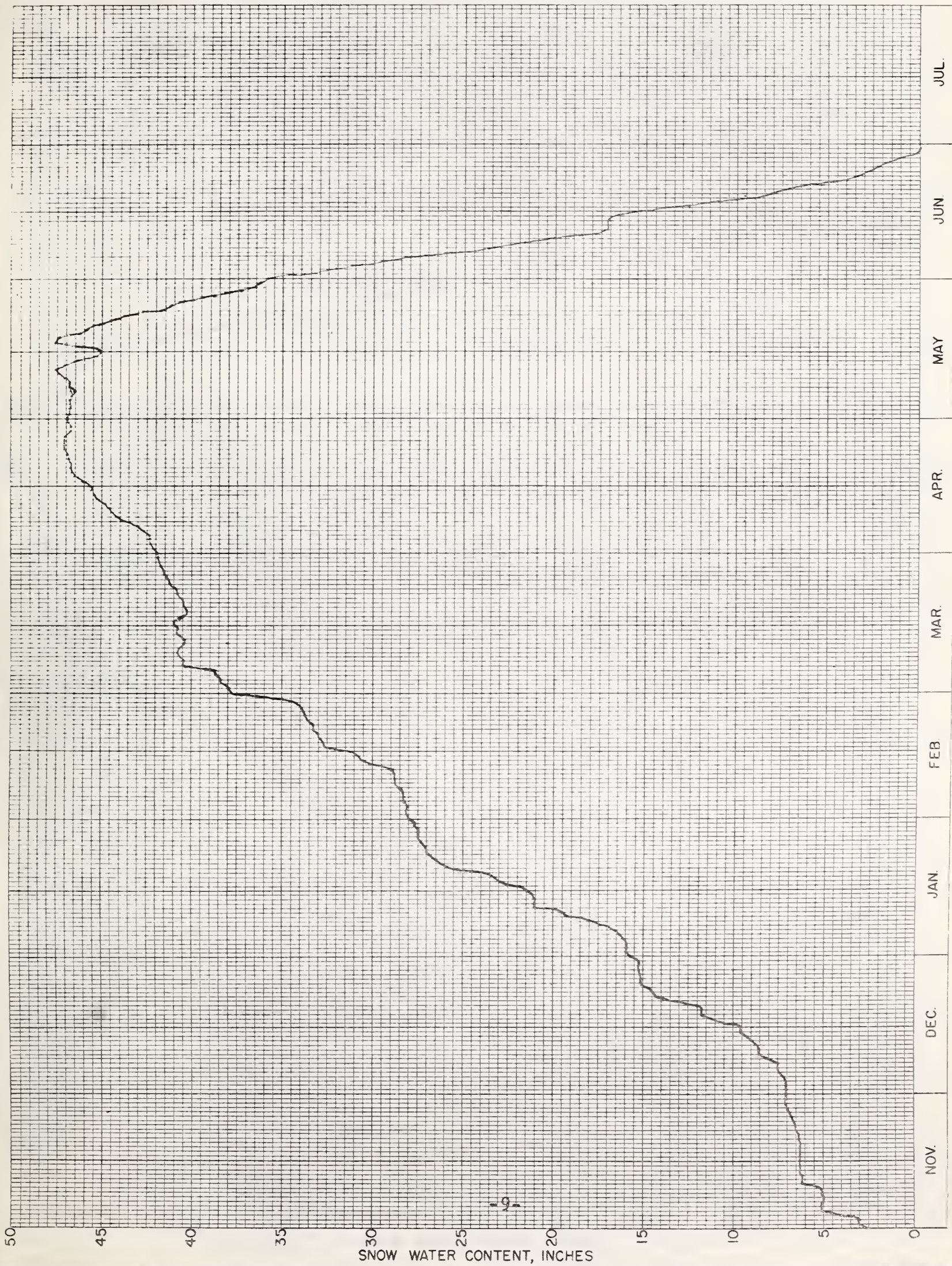
SNOW PILLOW DATA
WATER YEAR 1972

HAWKINS LAKE

No. 15A03

Elev. 6450'

Drainage: Kootenai



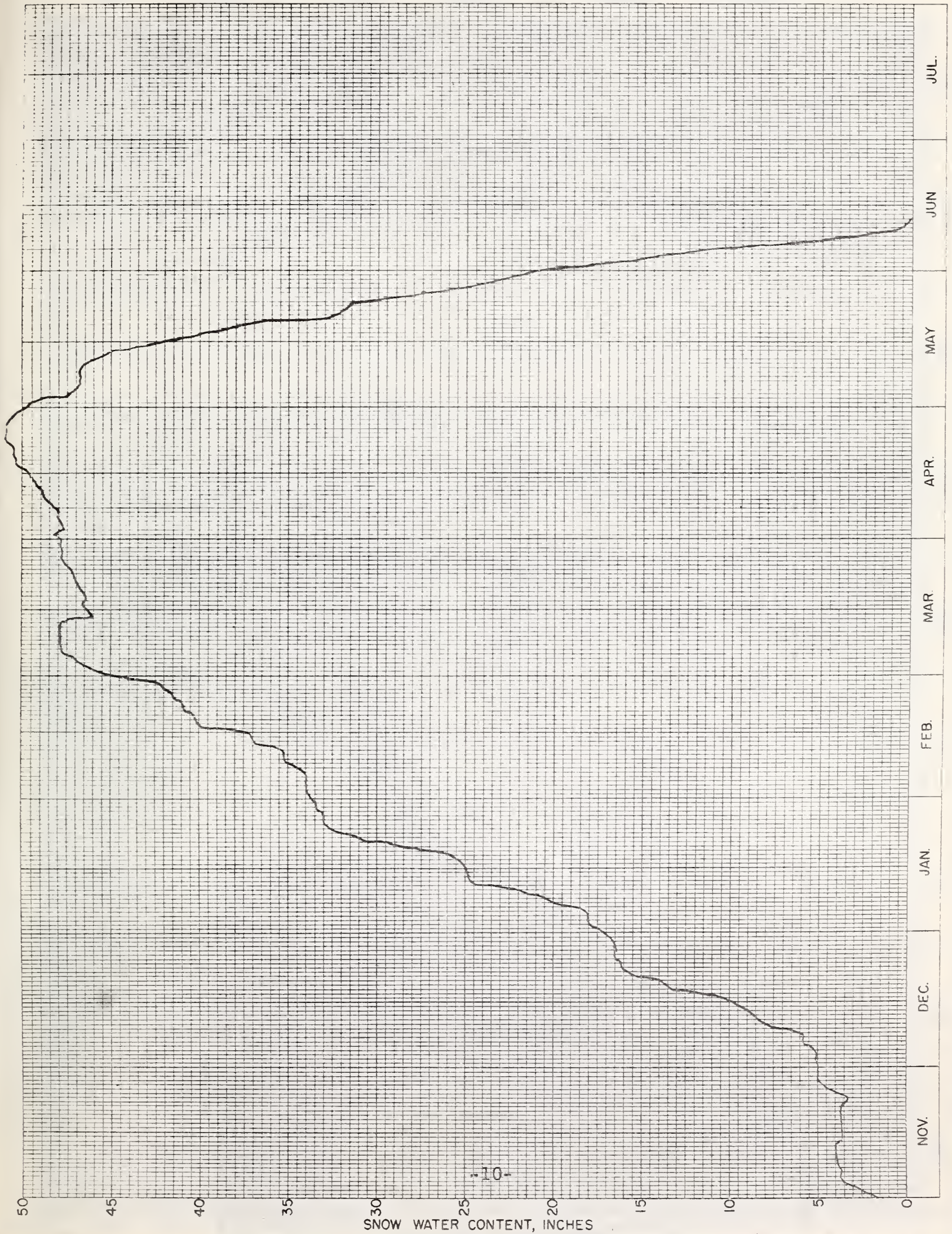
SNOW PILLOW DATA
WATER YEAR 1972

POORMAN CREEK

No. 15A12

Elev. 5100'

Drainage: Kootenai



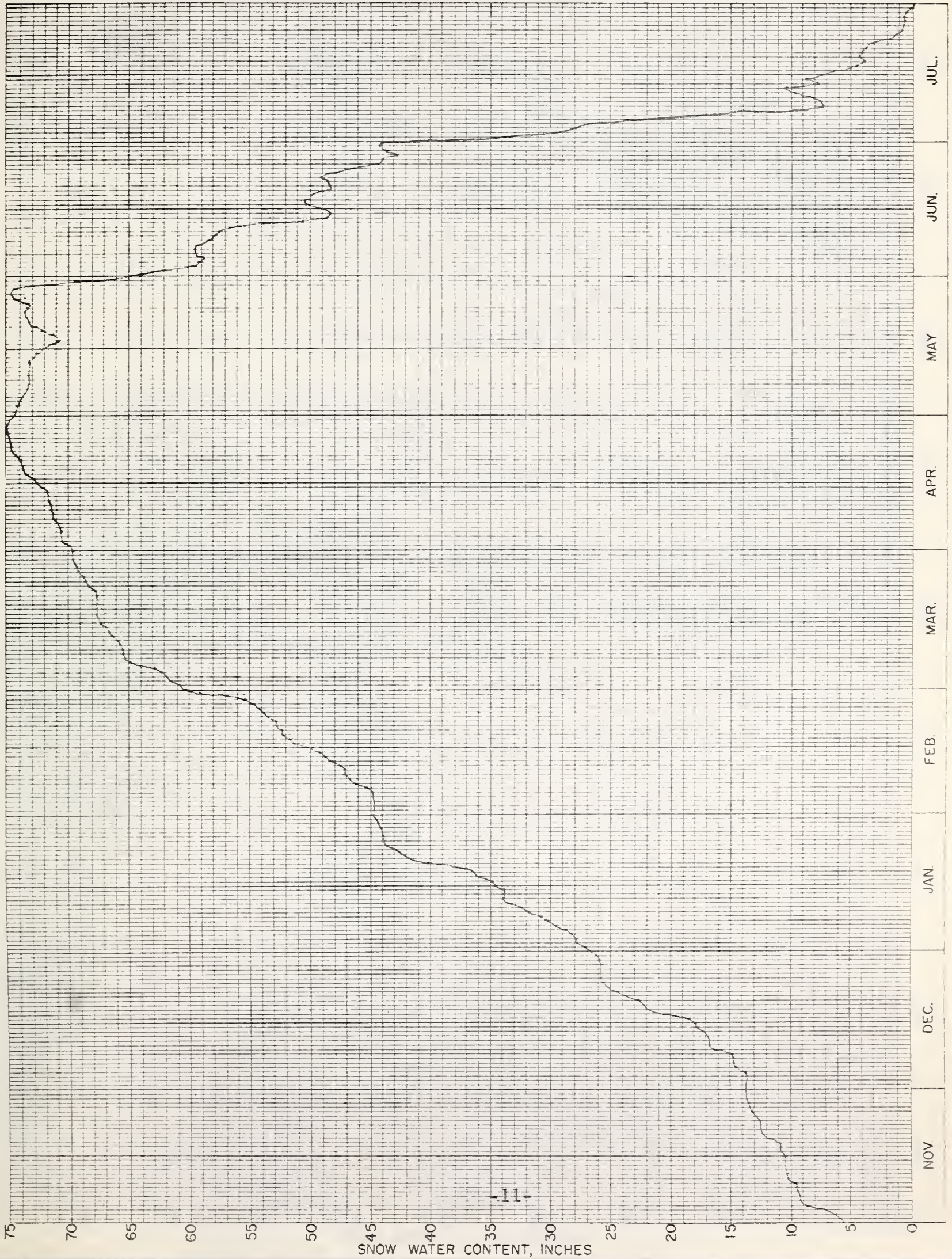
SNOW PILLOW DATA
WATER YEAR 1972

FLATTOP MOUNTAIN

No. 13A19

Elev. 6300'

Drainage: Flathead



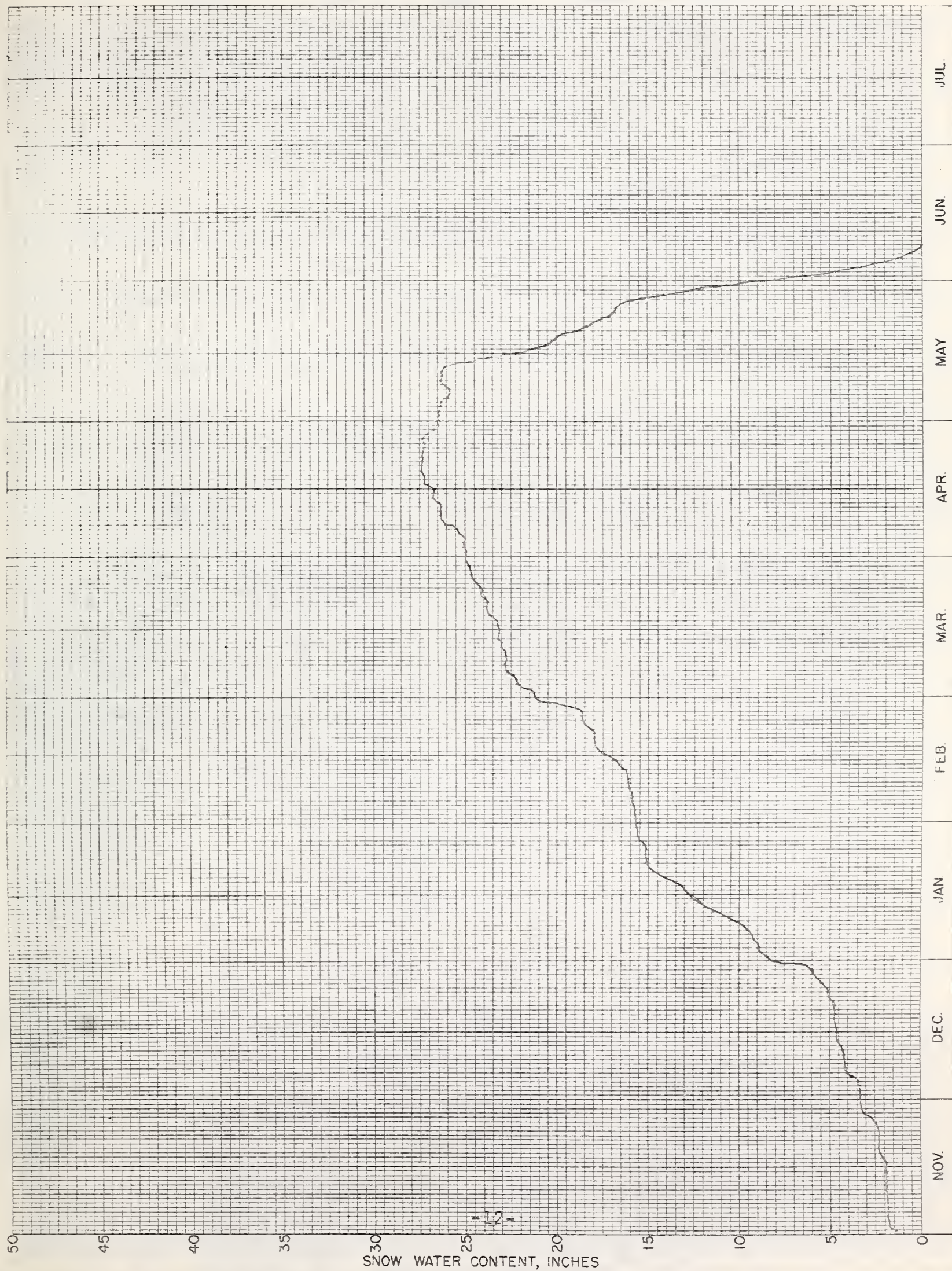
SNOW PILLOW DATA
WATER YEAR 1972

BLACK PINE

No. 13C13

Elev. 7100'

Drainage: Clark Fork



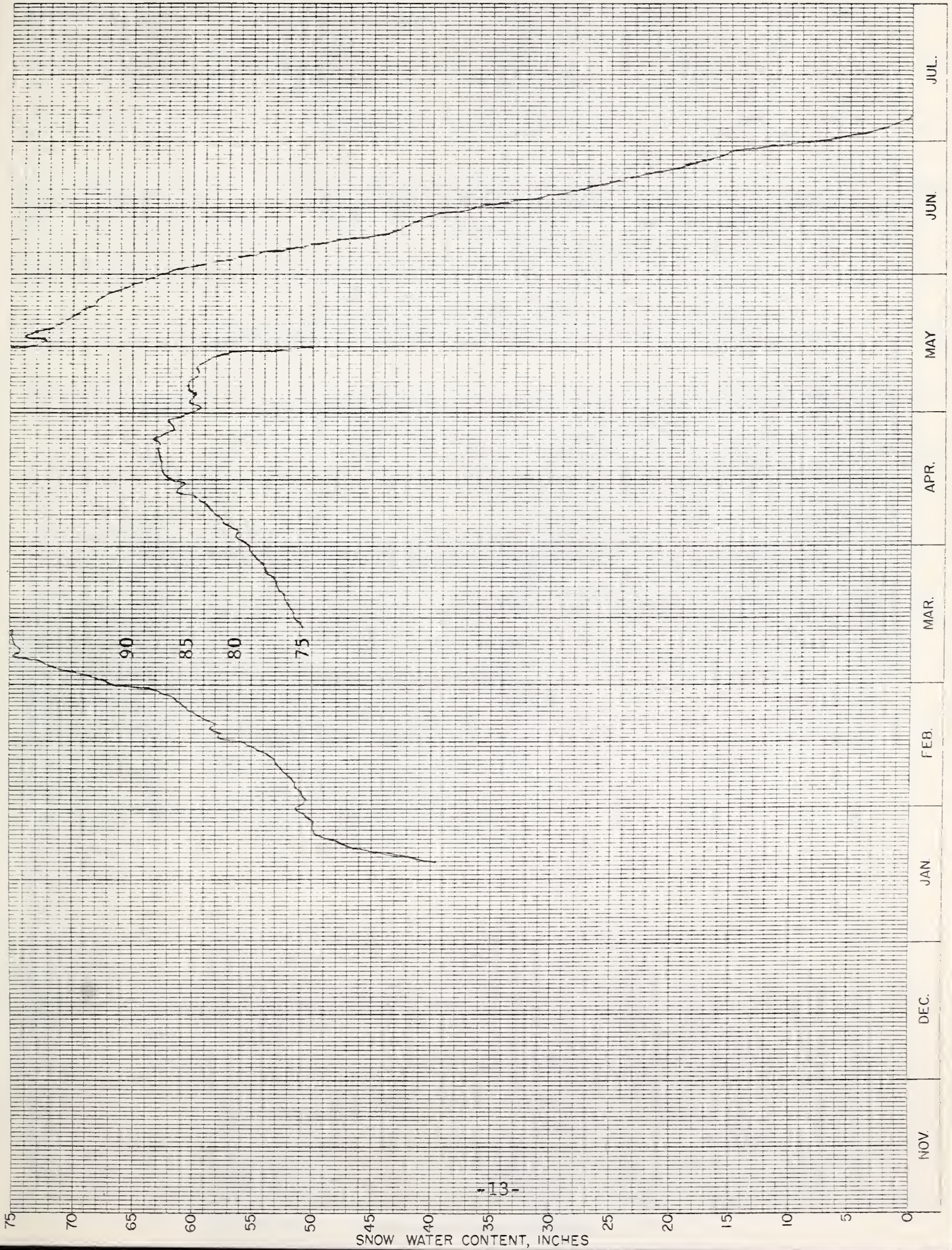
SNOW PILLOW DATA
WATER YEAR 1972

HOODOO BASIN

No. 15C10

Elev. 6000'

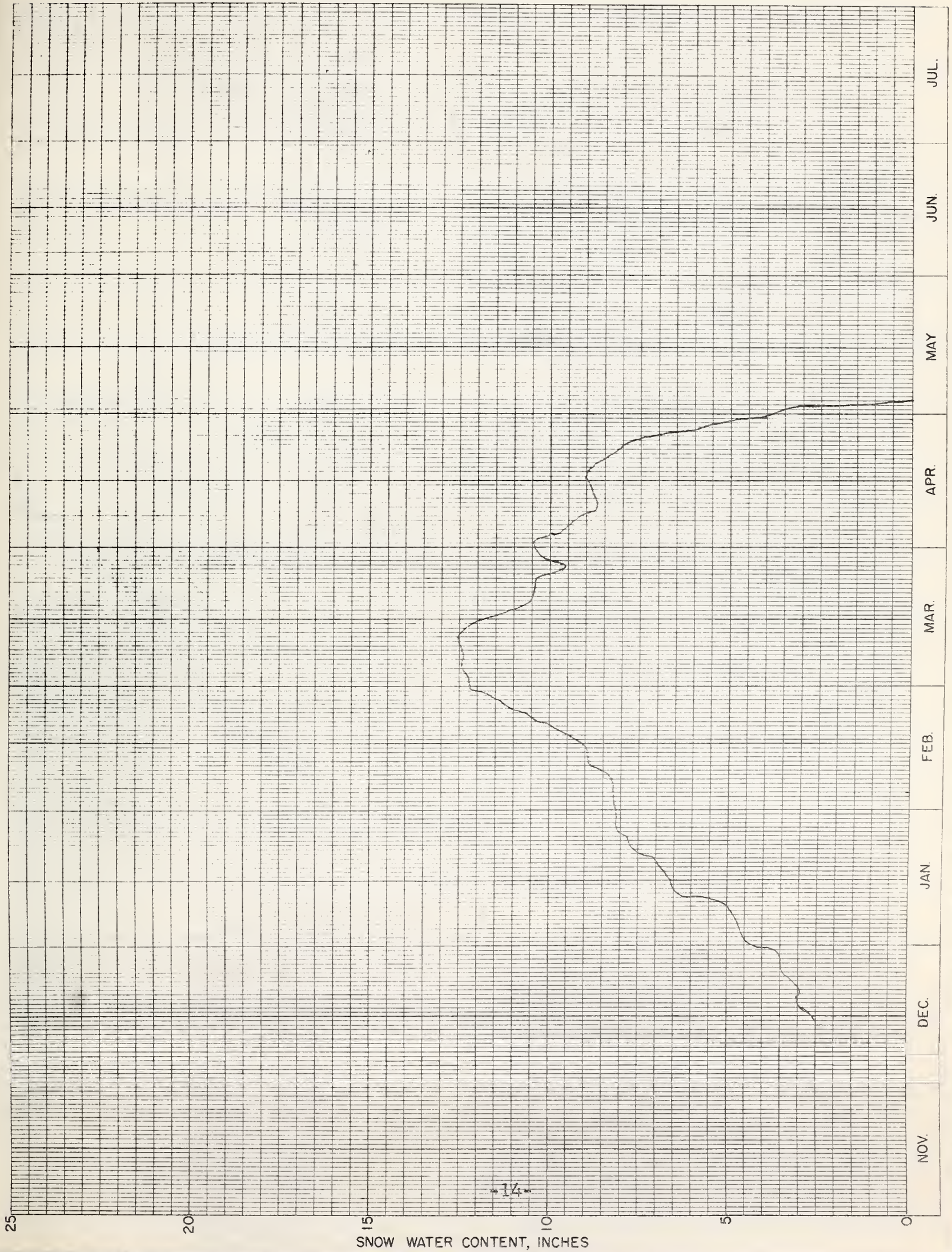
Drainage: Clark Fork



SNOW PILLOW DATA
WATER YEAR 1972

LUBRECHT FLUME

No. 13C38 Elev. 4800' Drainage. Clark Fork



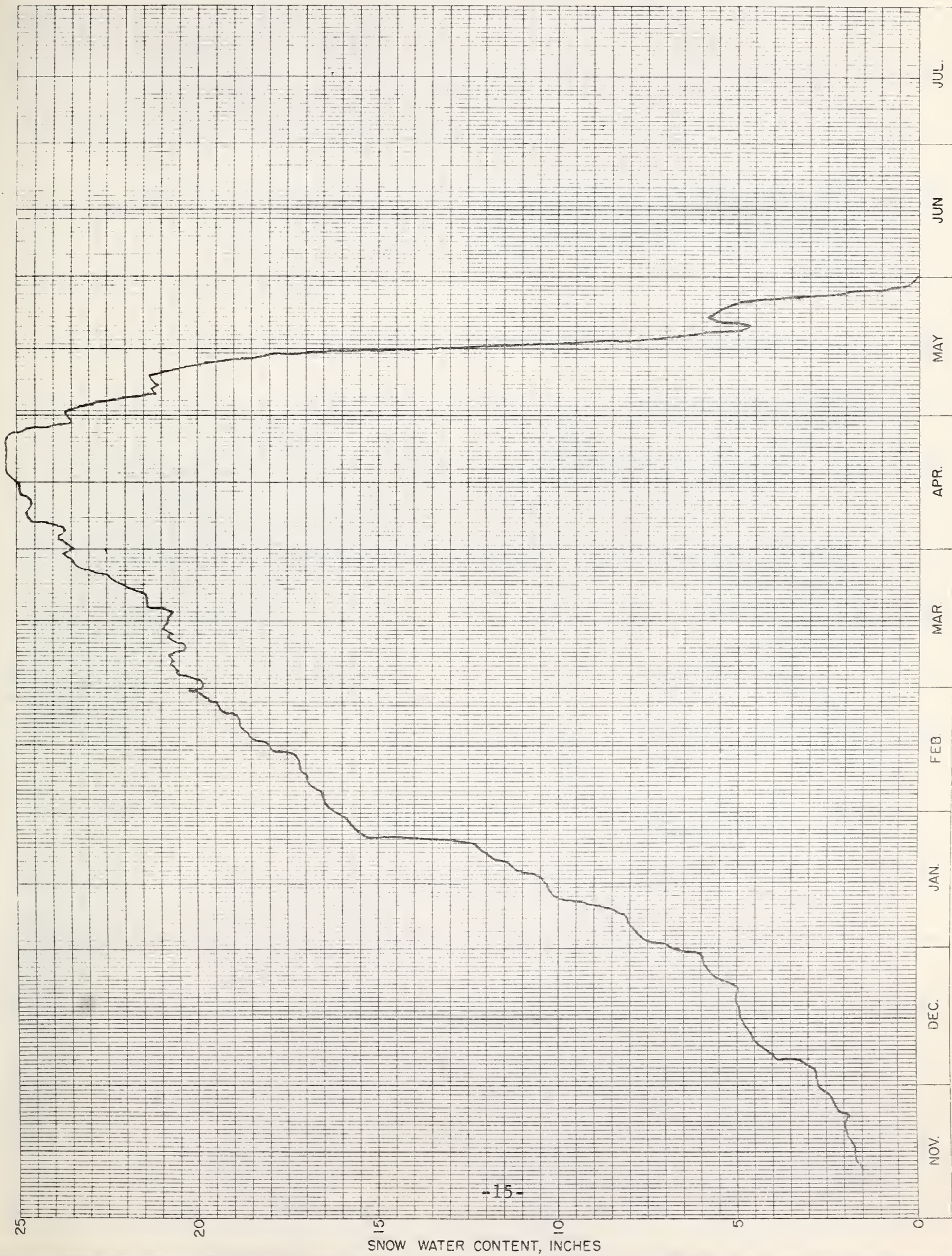
SNOW PILLOW DATA
WATER YEAR 1972

NORTH FORK ELK CREEK

No. 13C31

Elev. 6250'

Drainage. Clark Fork



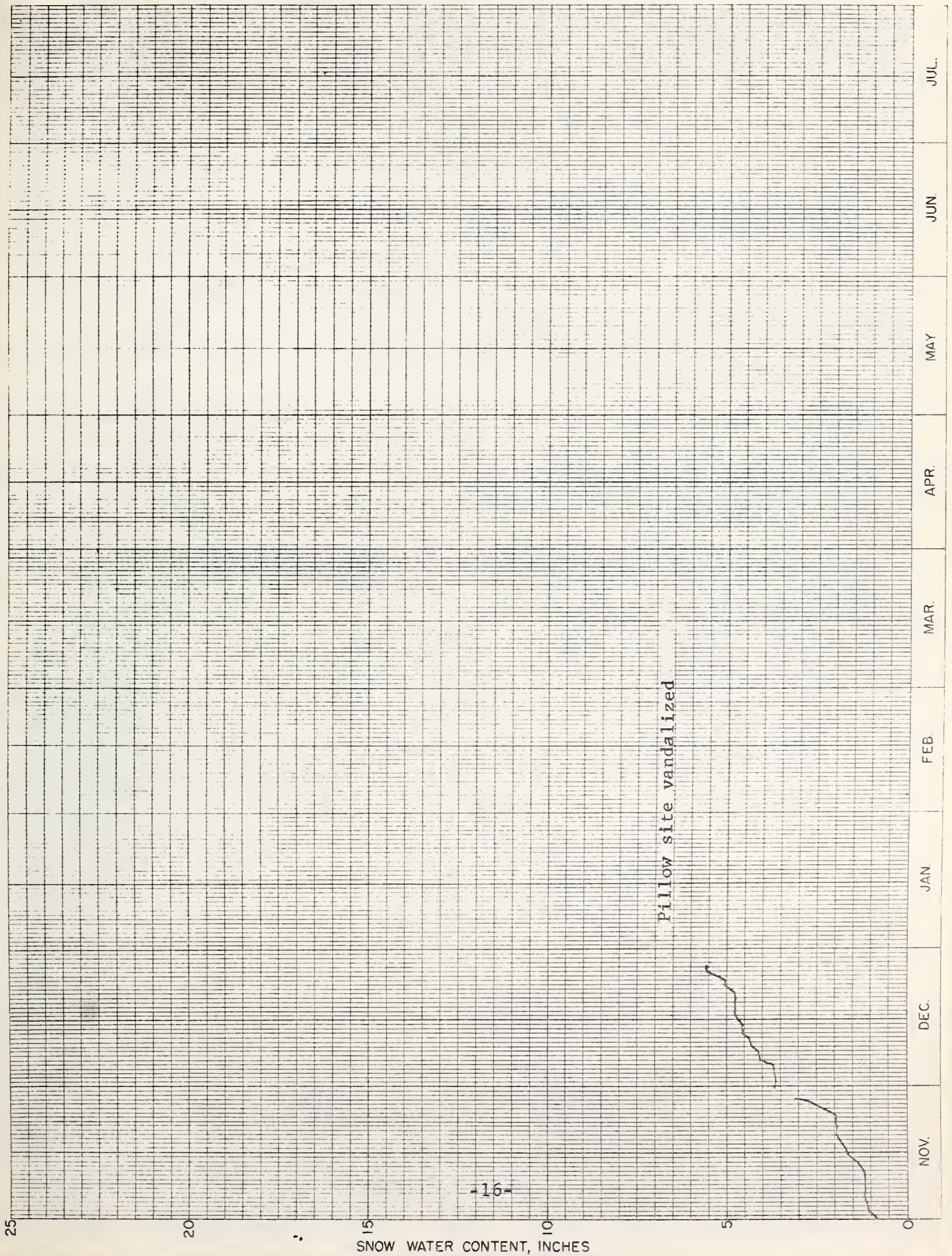
SNOW PILLOW DATA
WATER YEAR 1972

PETERSON MEADOWS

No. 13C36

Elev. 7200'

Drainage. Clark Fork



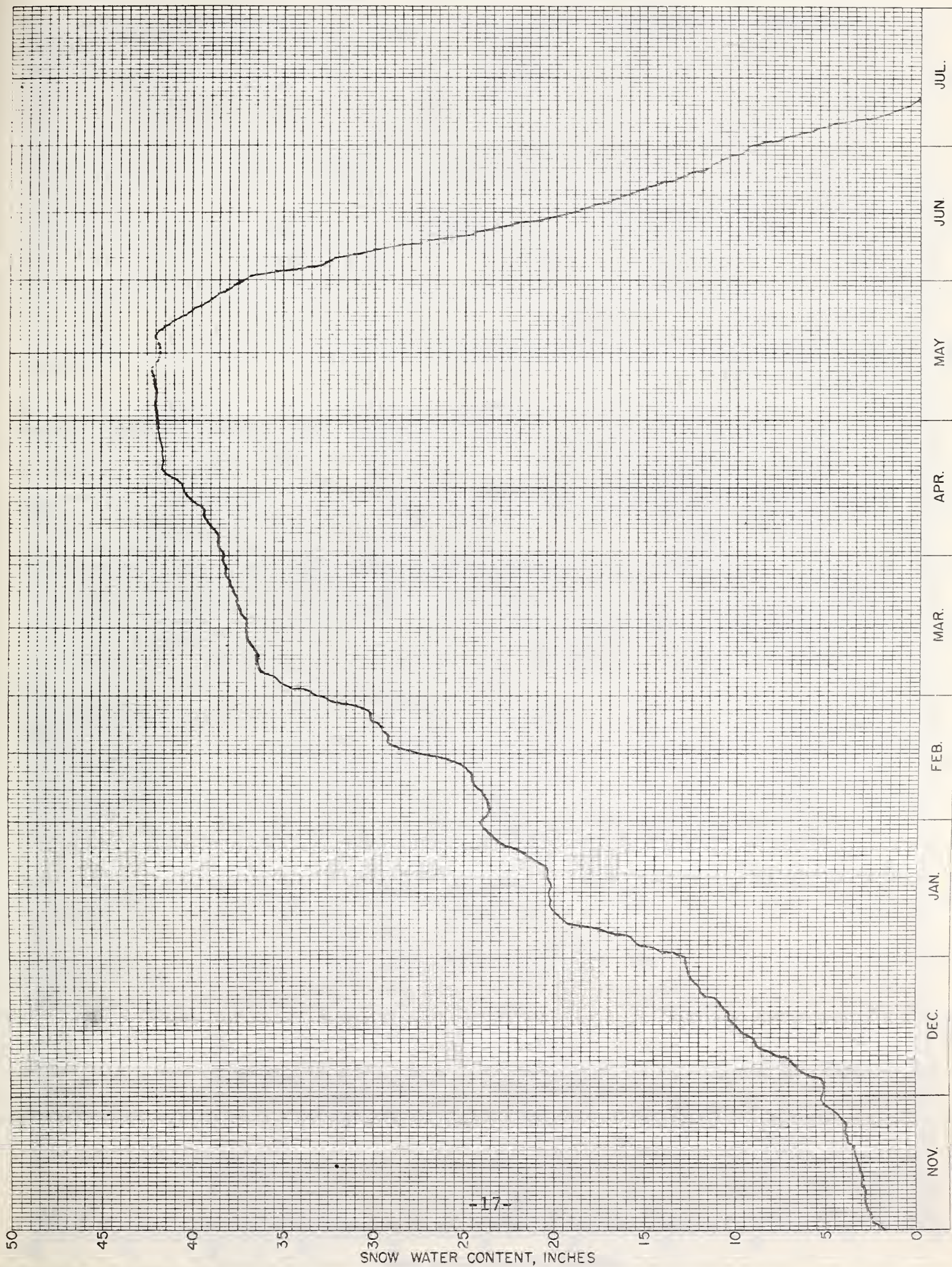
SNOW PILLOW DATA
WATER YEAR 1972

SADDLE MOUNTAIN

No. 13D22

Elev. 7900'

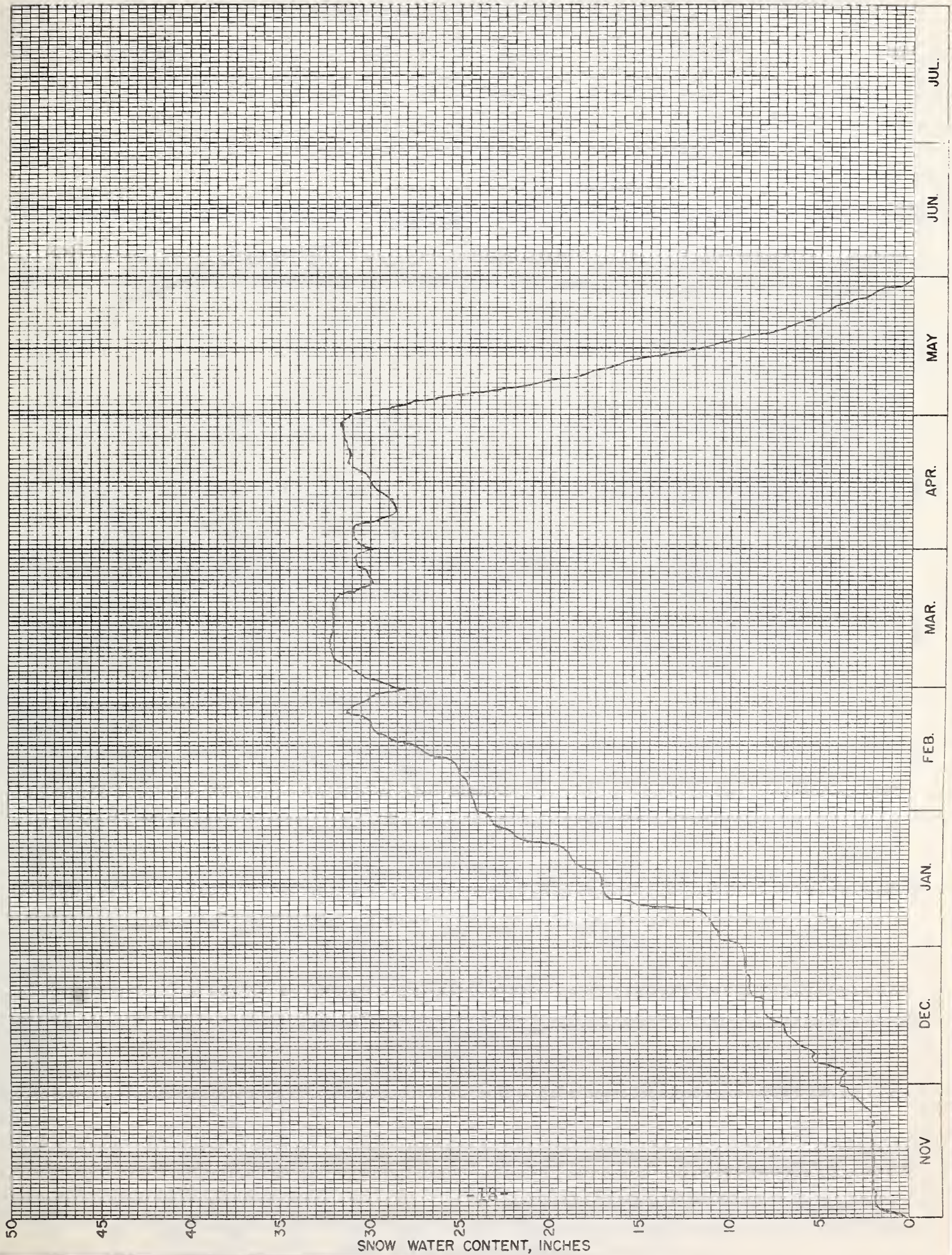
Drainage: Bitterroot



SNOW PILLOW DATA
WATER YEAR 1972

TWELVEMILE CREEK

No. 14C13 Elev. 5600' Drainage Bitterroot



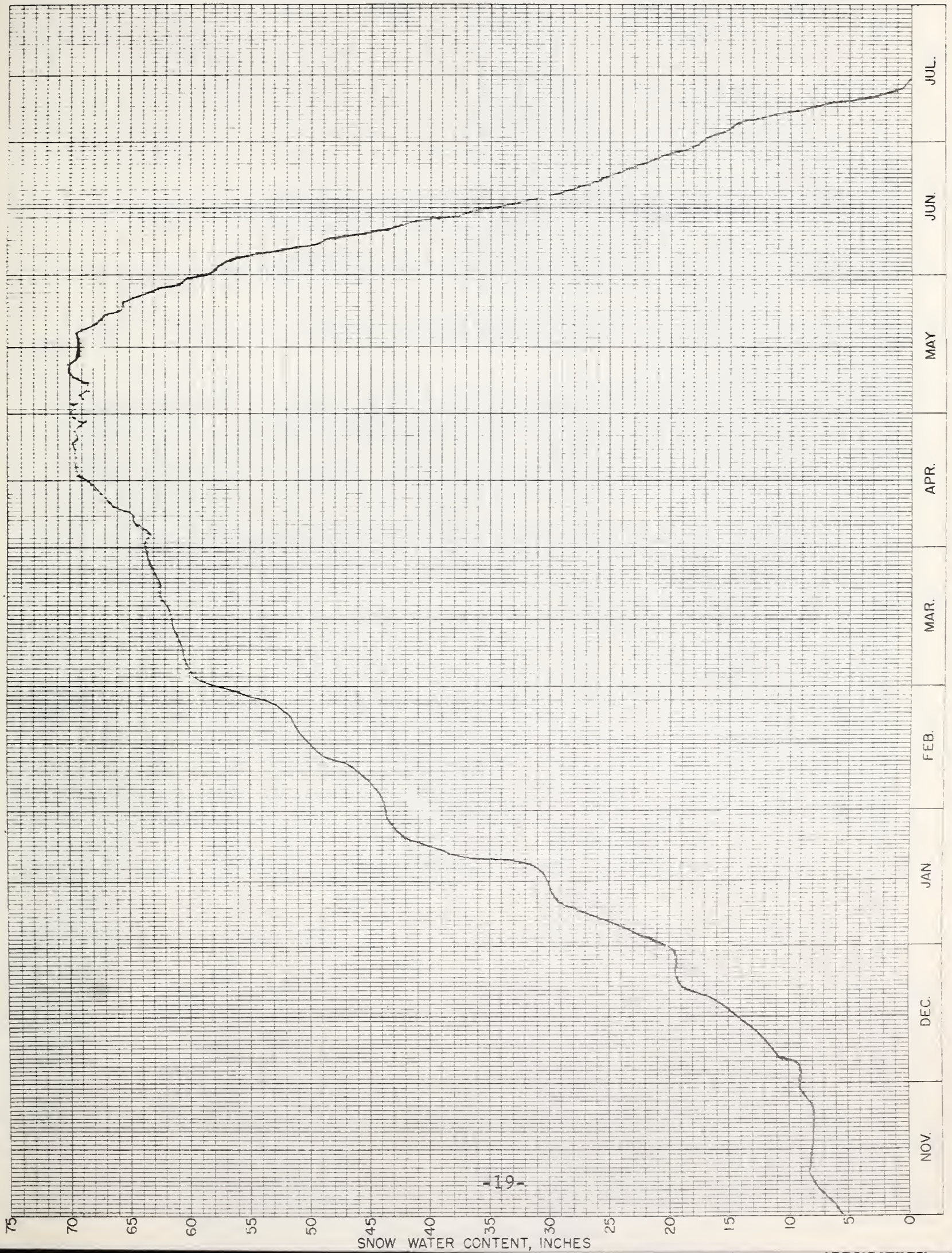
SNOW PILLOW DATA
WATER YEAR 1972

TWIN LAKES

No. 14C12

Elev. 6400'

Drainage: Bitterroot



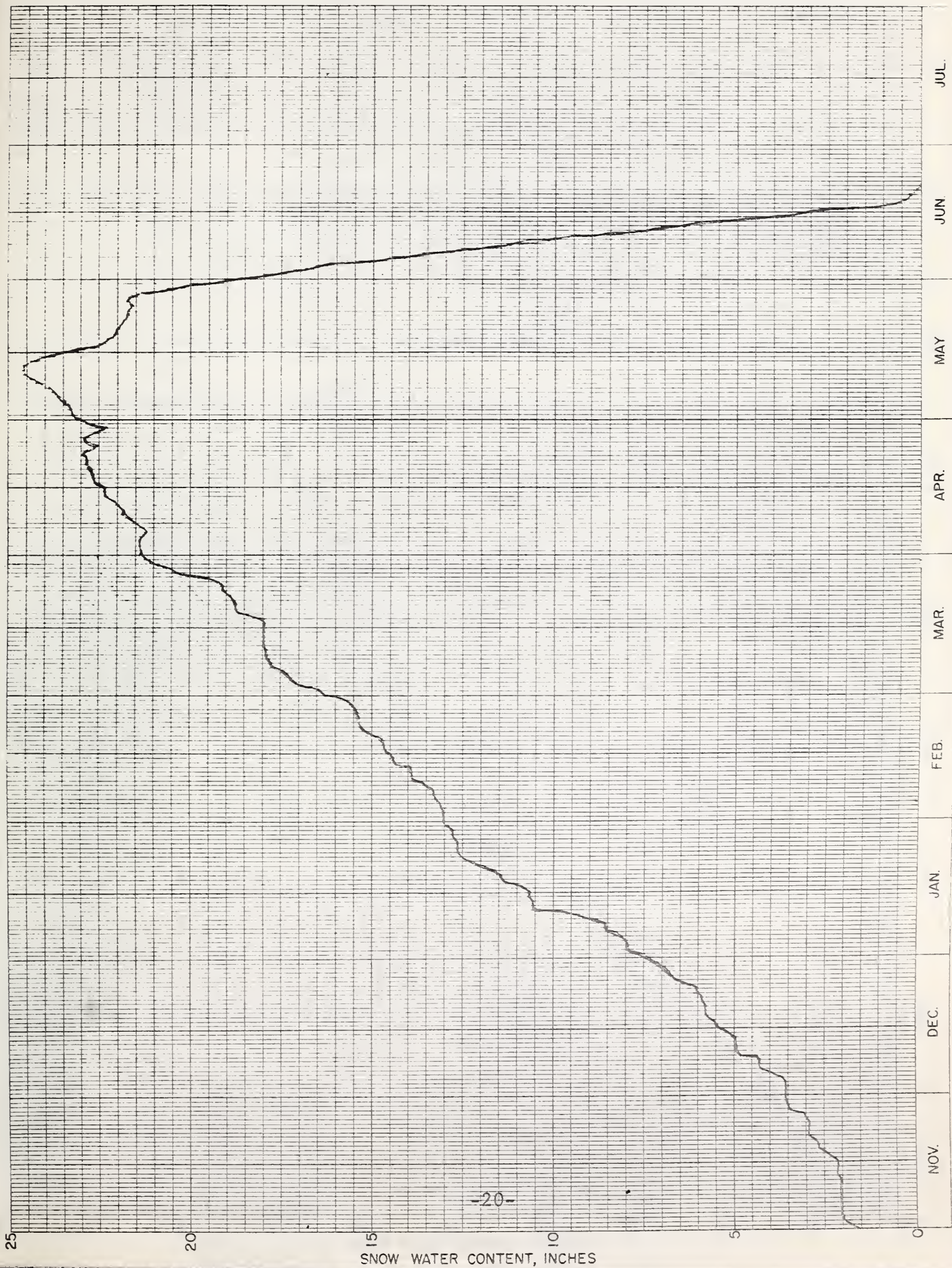
SNOW PILLOW DATA
WATER YEAR 1972

ROCKER PEAK

No. 12C11

Elev. 8000'

Drainage. Jefferson



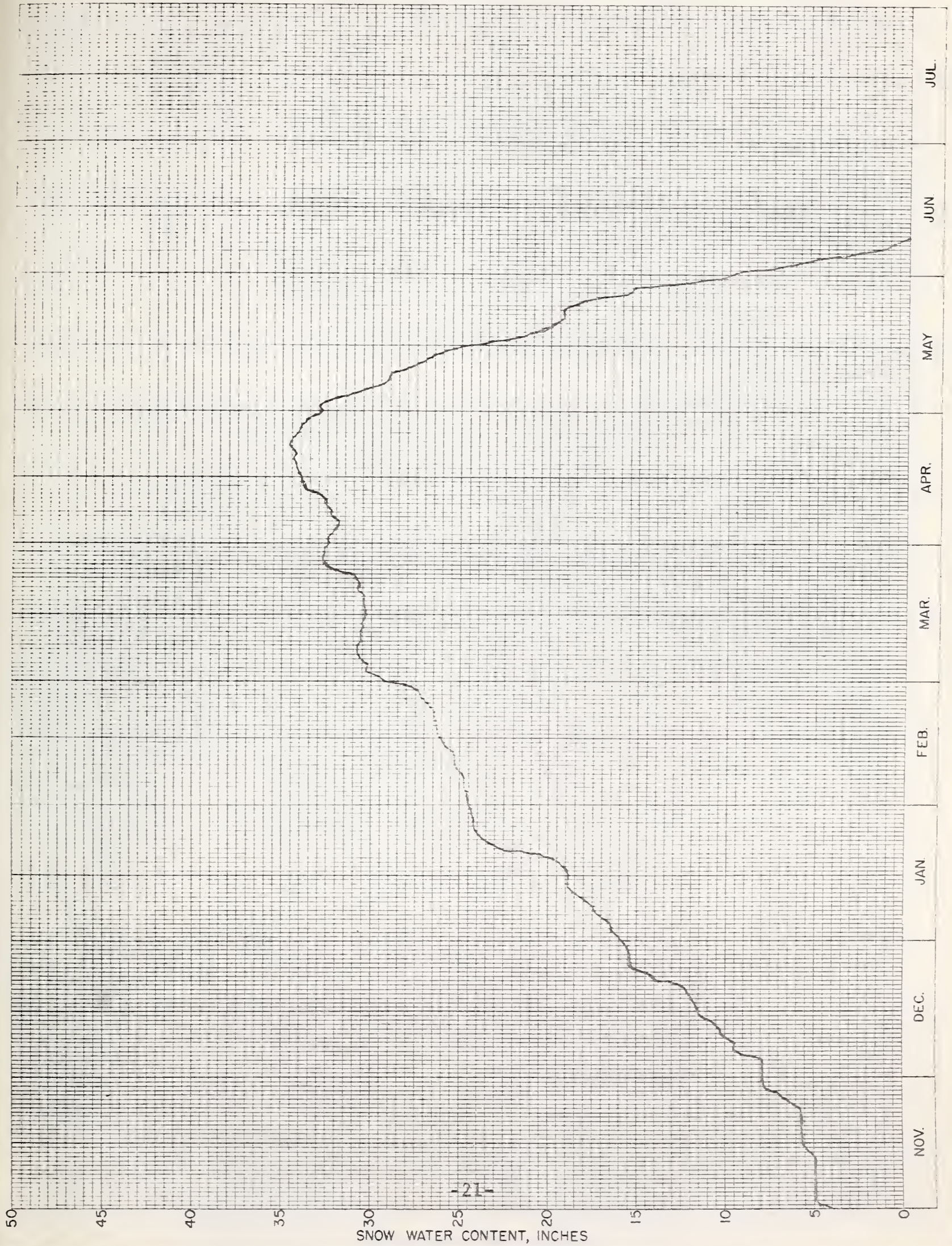
SNOW PILLOW DATA
WATER YEAR 1972

MADISON PLATEAU

No. 11E31

Elev. 7750'

Drainage: Madison



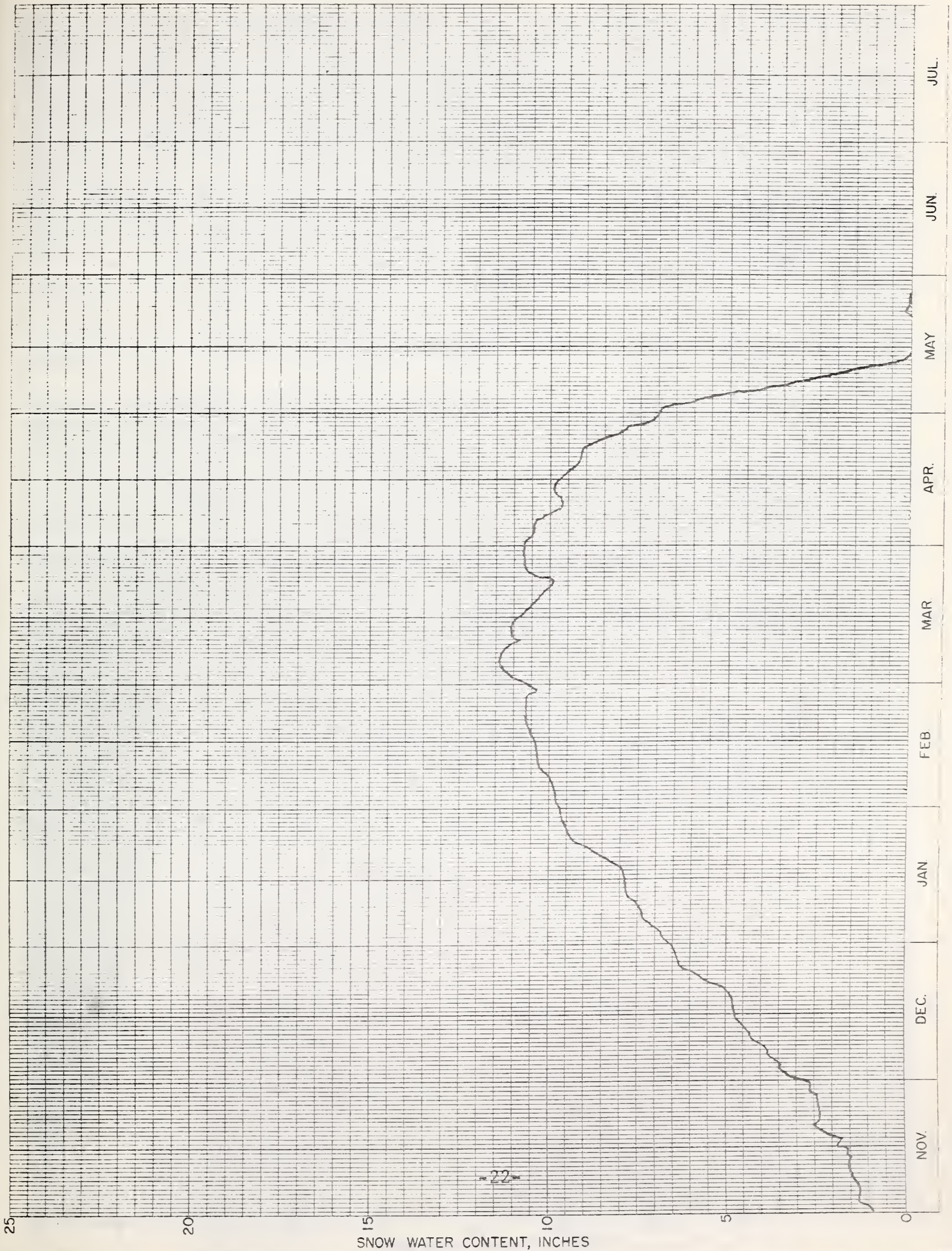
SNOW PILLOW DATA
WATER YEAR 1972

WEST YELLOWSTONE

No. 11E07

Elev. 6700'

Drainage. Madison



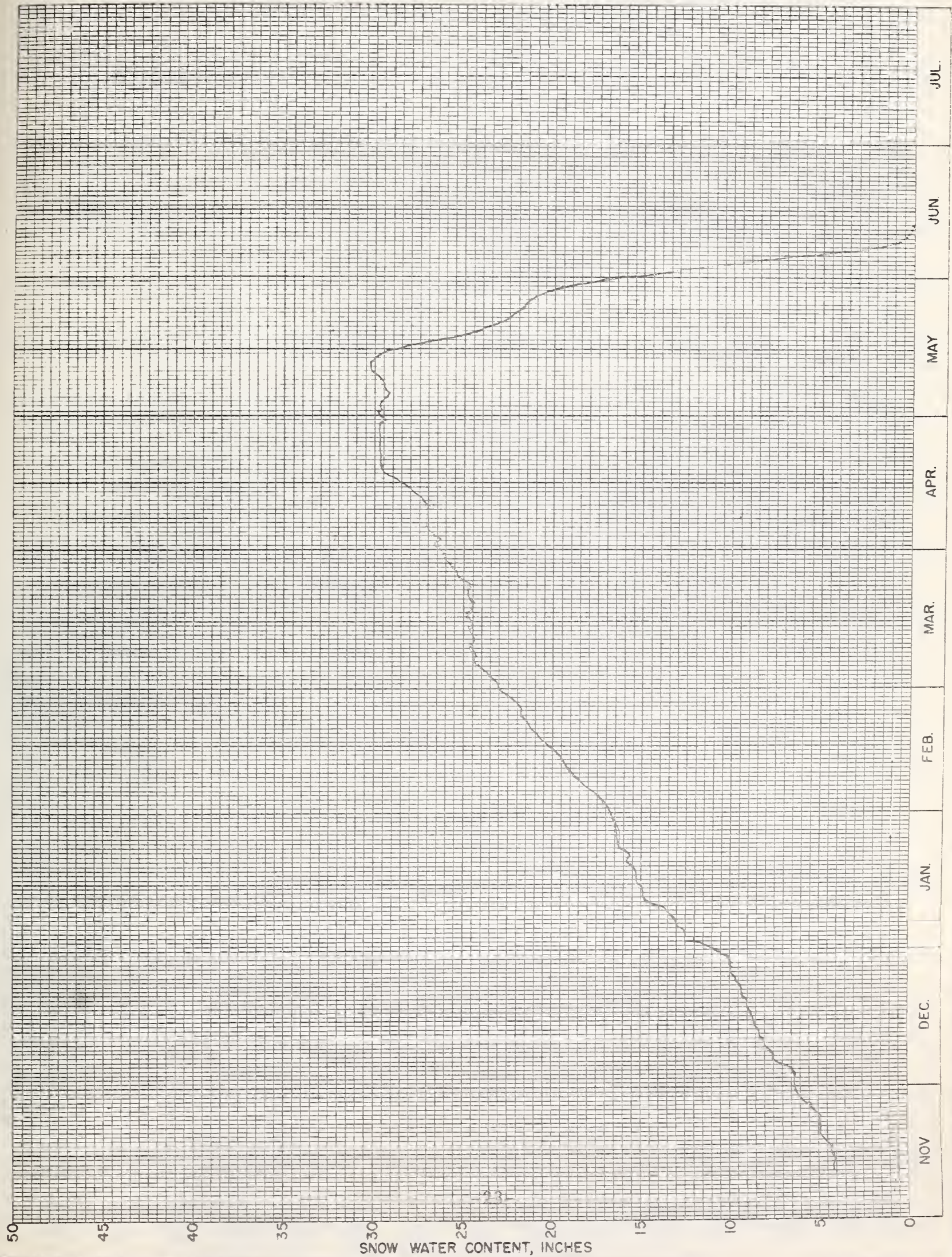
SNOW PILLOW DATA
WATER YEAR 1972

BANGTAIL

No. 10D20

Elev. 7900'

Drainage Gallatin



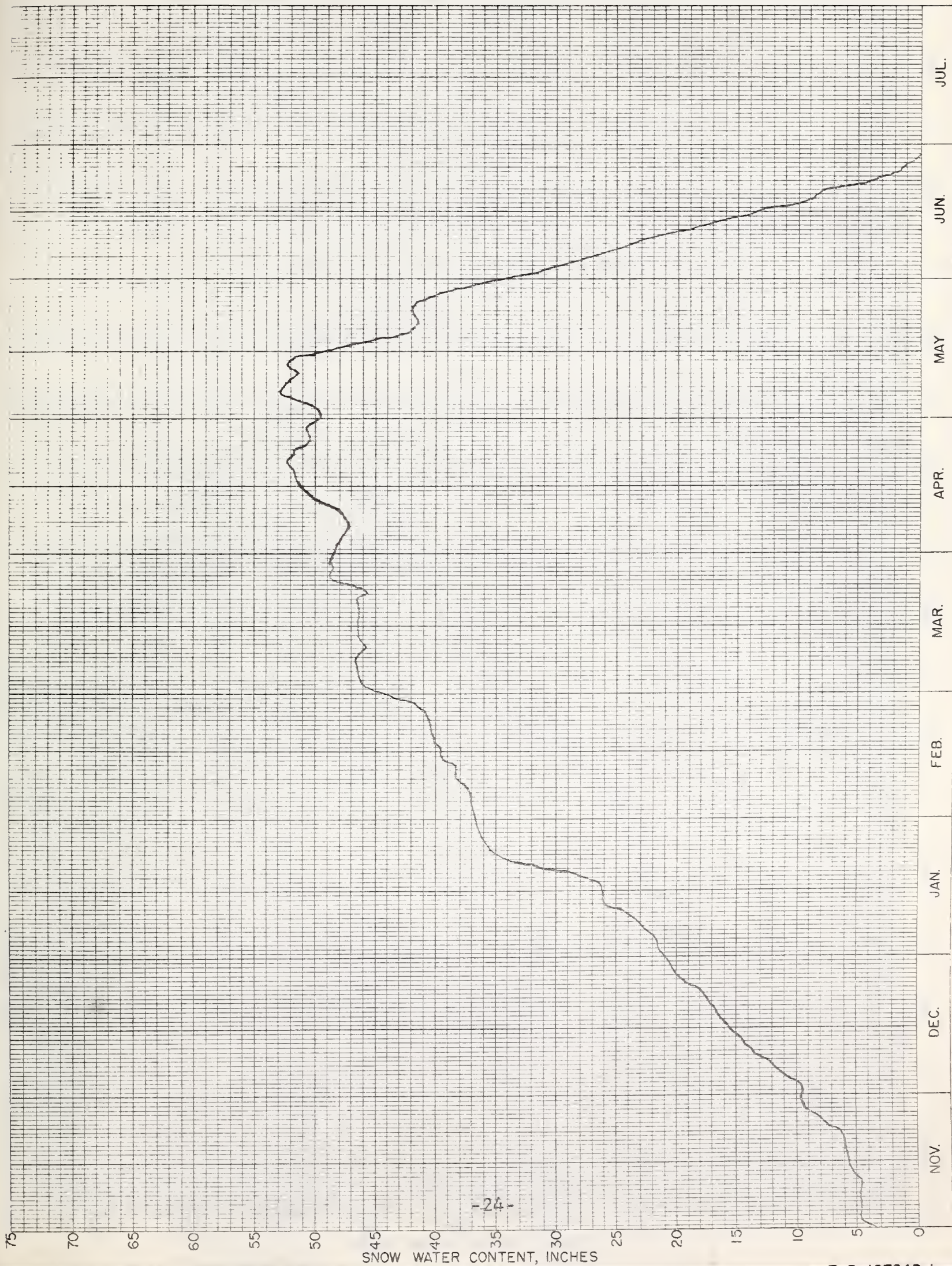
SNOW PILLOW DATA
WATER YEAR 1972

BLACK BEAR

No. 11E35

Elev. 7950'

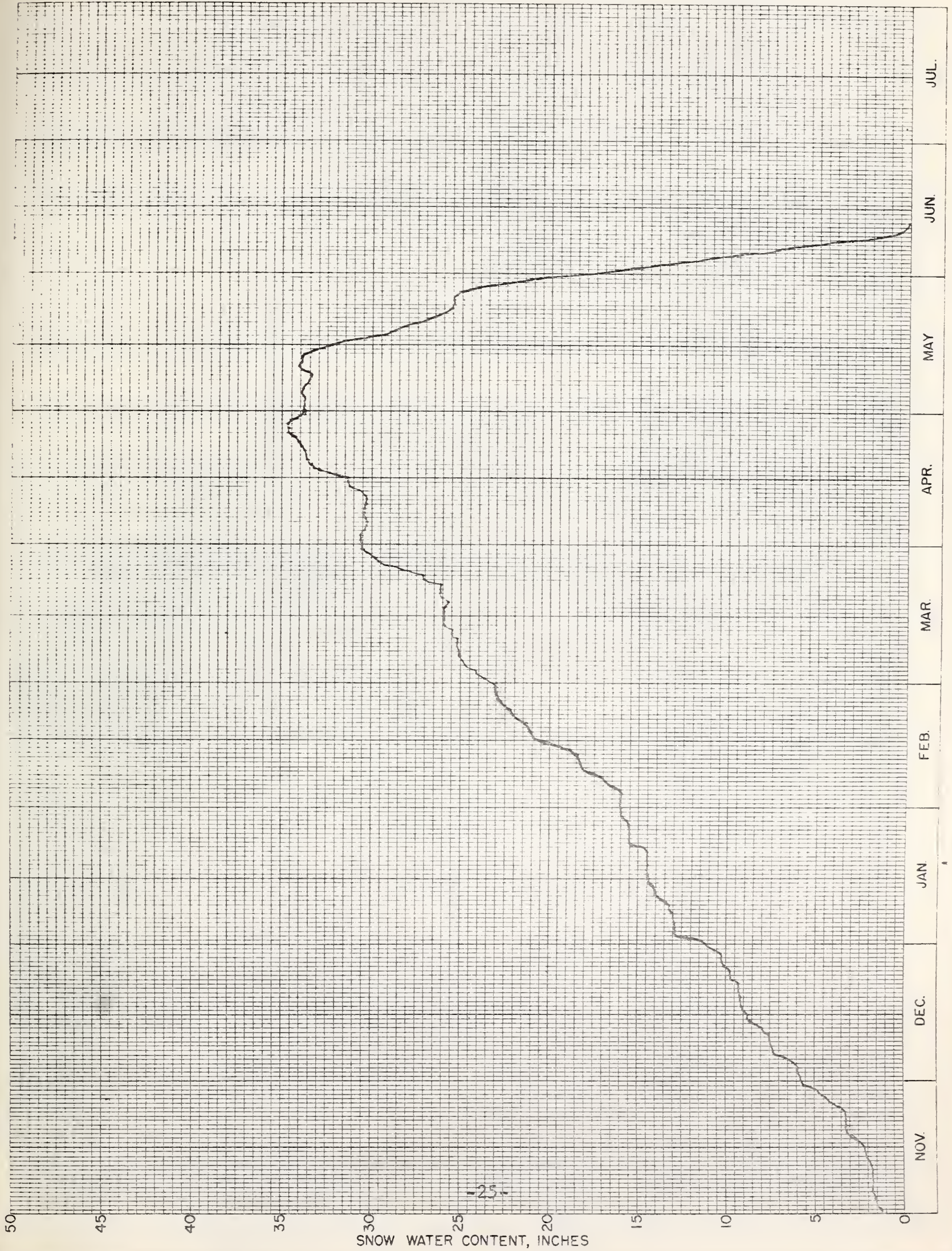
Drainage: Gallatin



SNOW PILLOW DATA
WATER YEAR 1972

BRIDGER BOWL

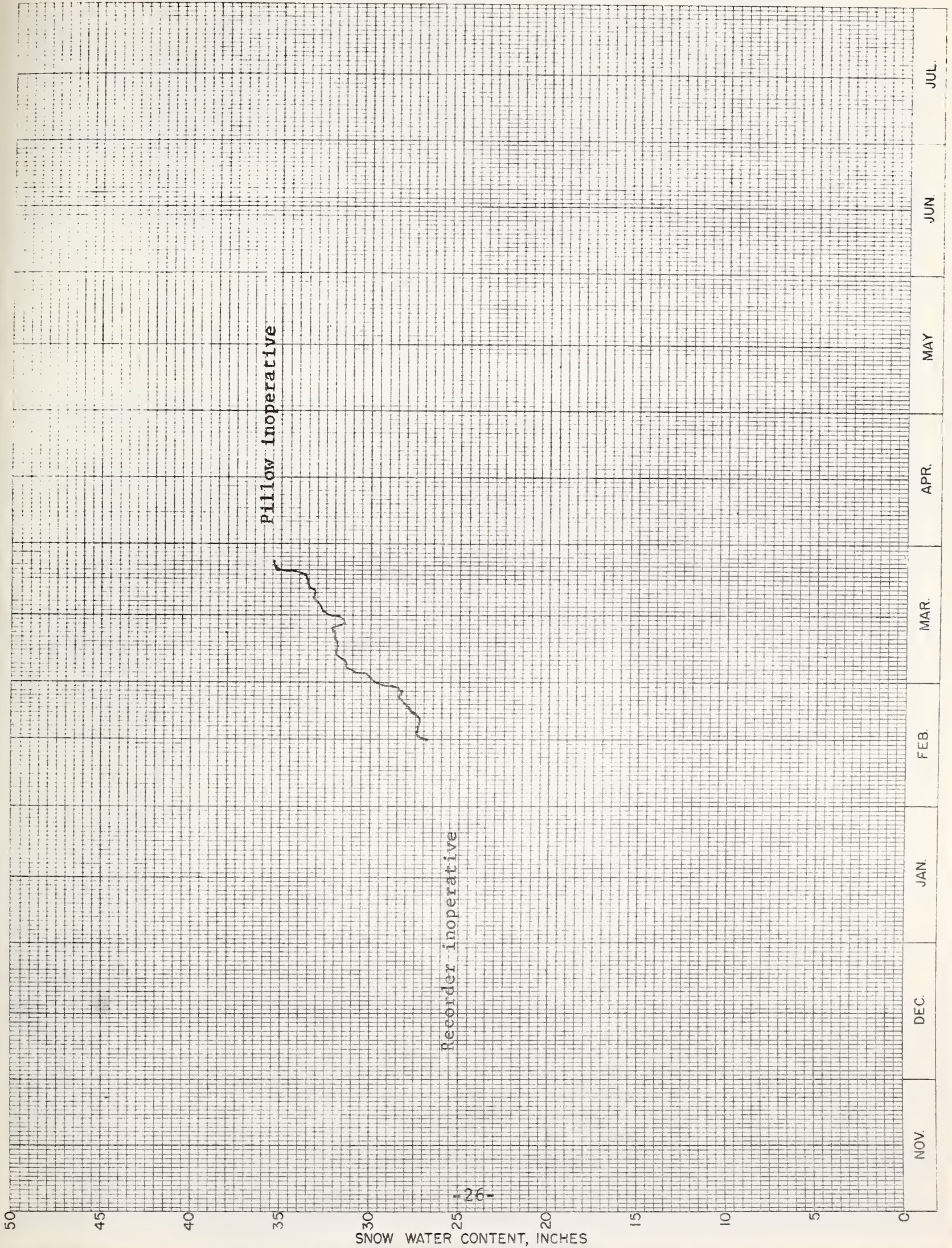
No. 10D15 Elev. 7250' Drainage: Gallatin



SNOW PILLOW DATA
WATER YEAR 1972

CARROT BASIN

No. 11E29 Elev. 9000' Drainage: Gallatin



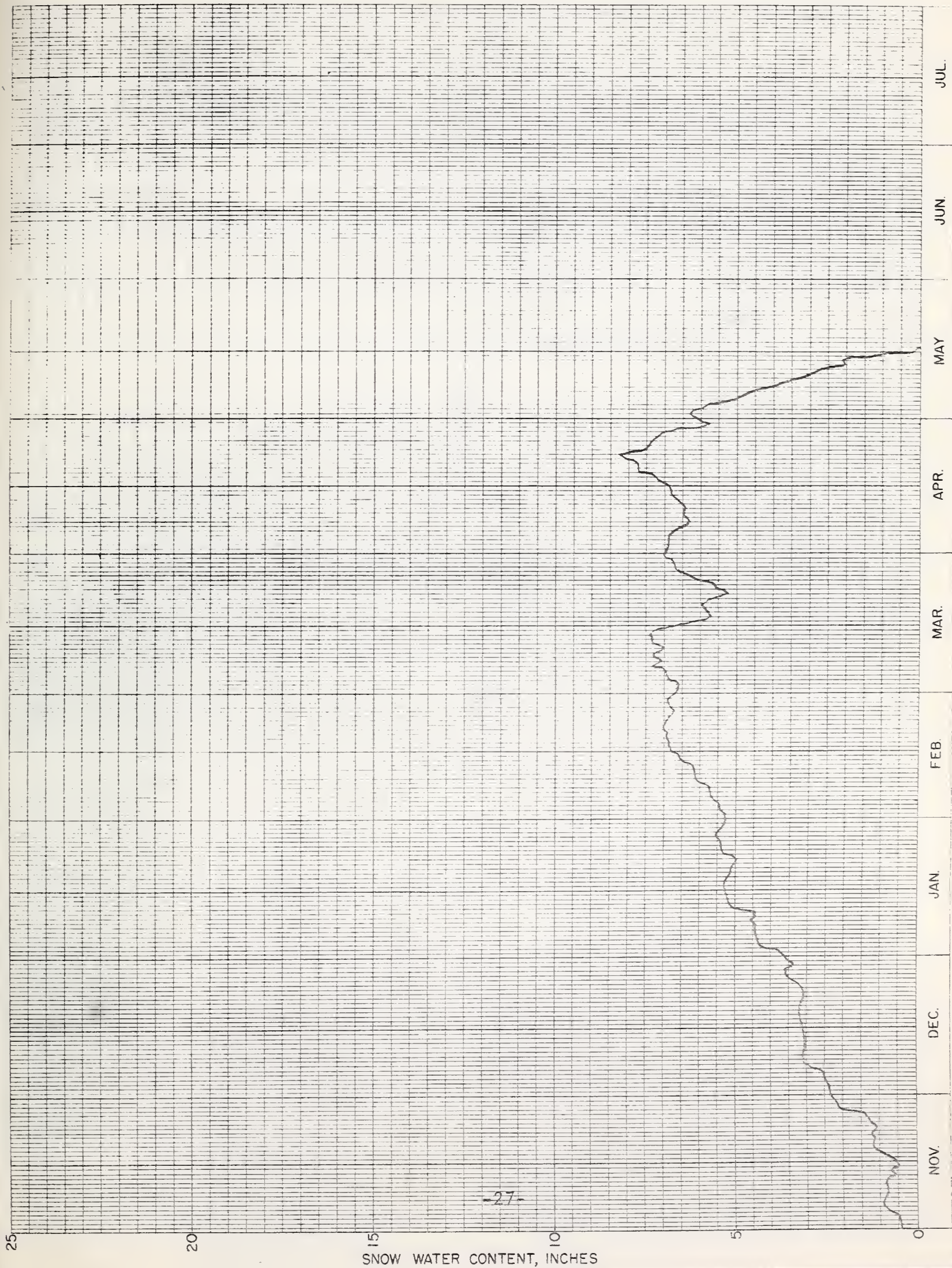
SNOW PILLOW DATA
WATER YEAR 1972

LICK CREEK

No. 10D13

Elev. 6860'

Drainage. Gallatin



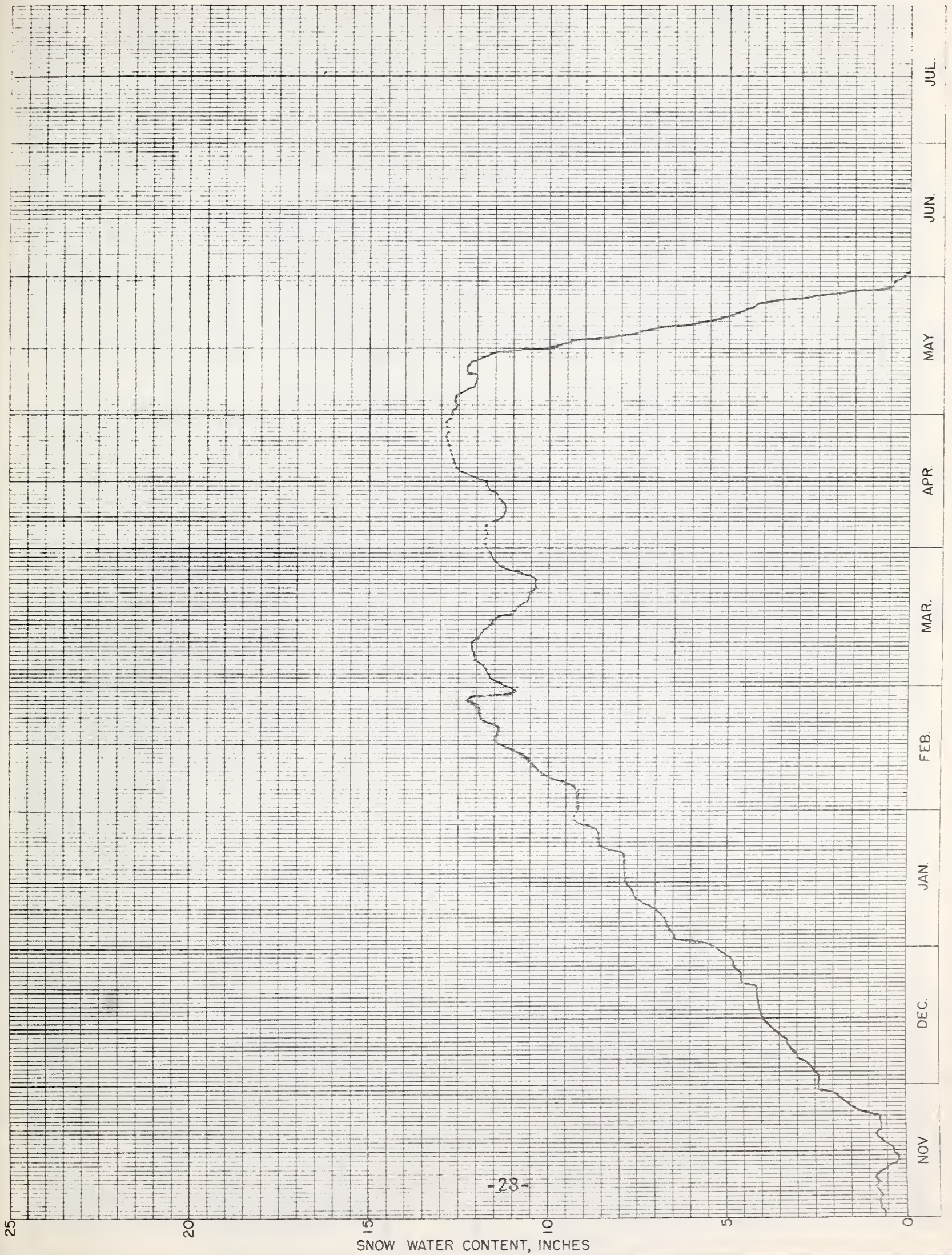
SNOW PILLOW DATA
WATER YEAR 1972

MAYNARD CREEK

No. 10D18

Elev. 6210'

Drainage. Gallatin



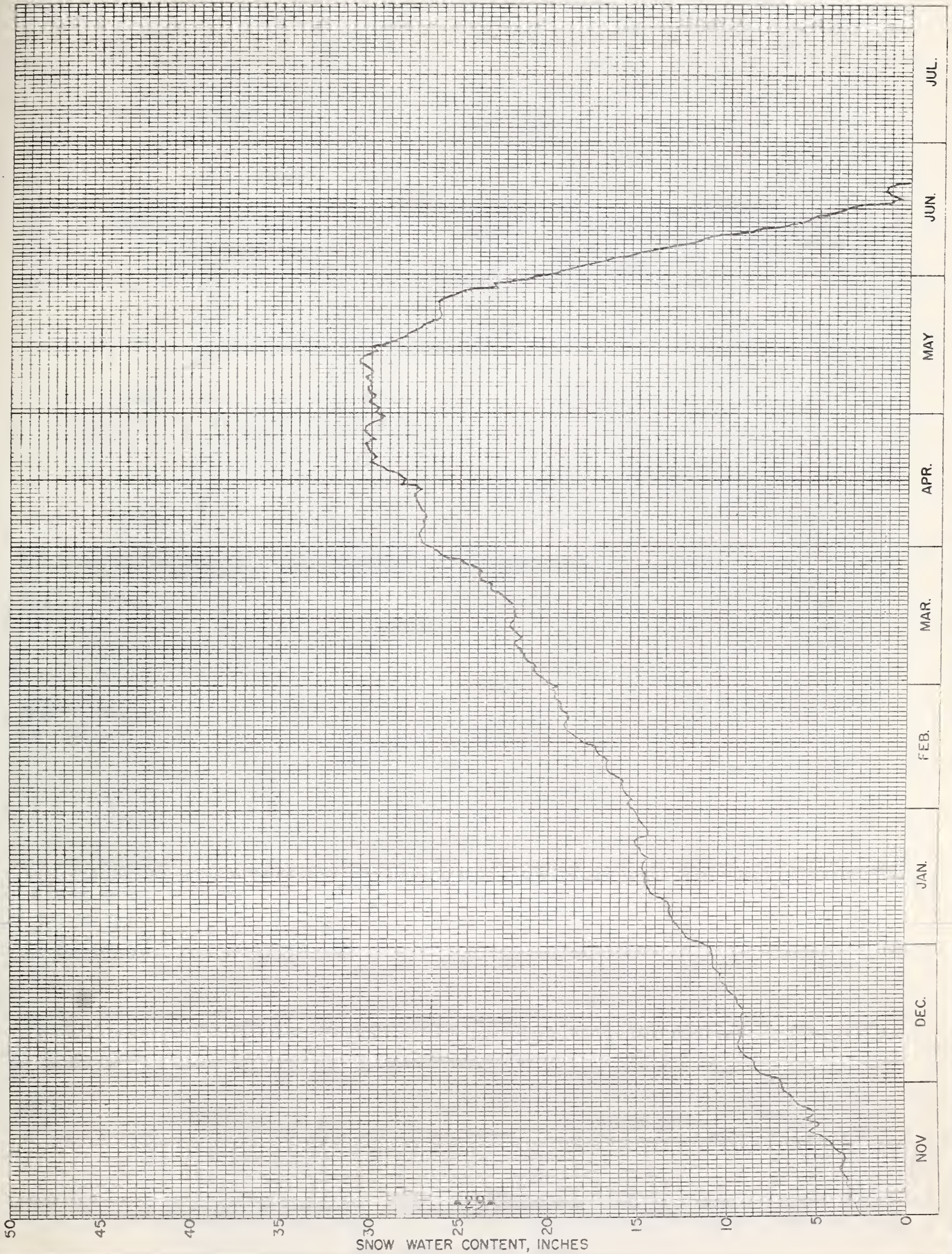
SNOW PILLOW DATA
WATER YEAR 1972

SHOWER FALLS

No. 10D16

Elev. 8100'

Drainage Gallatin



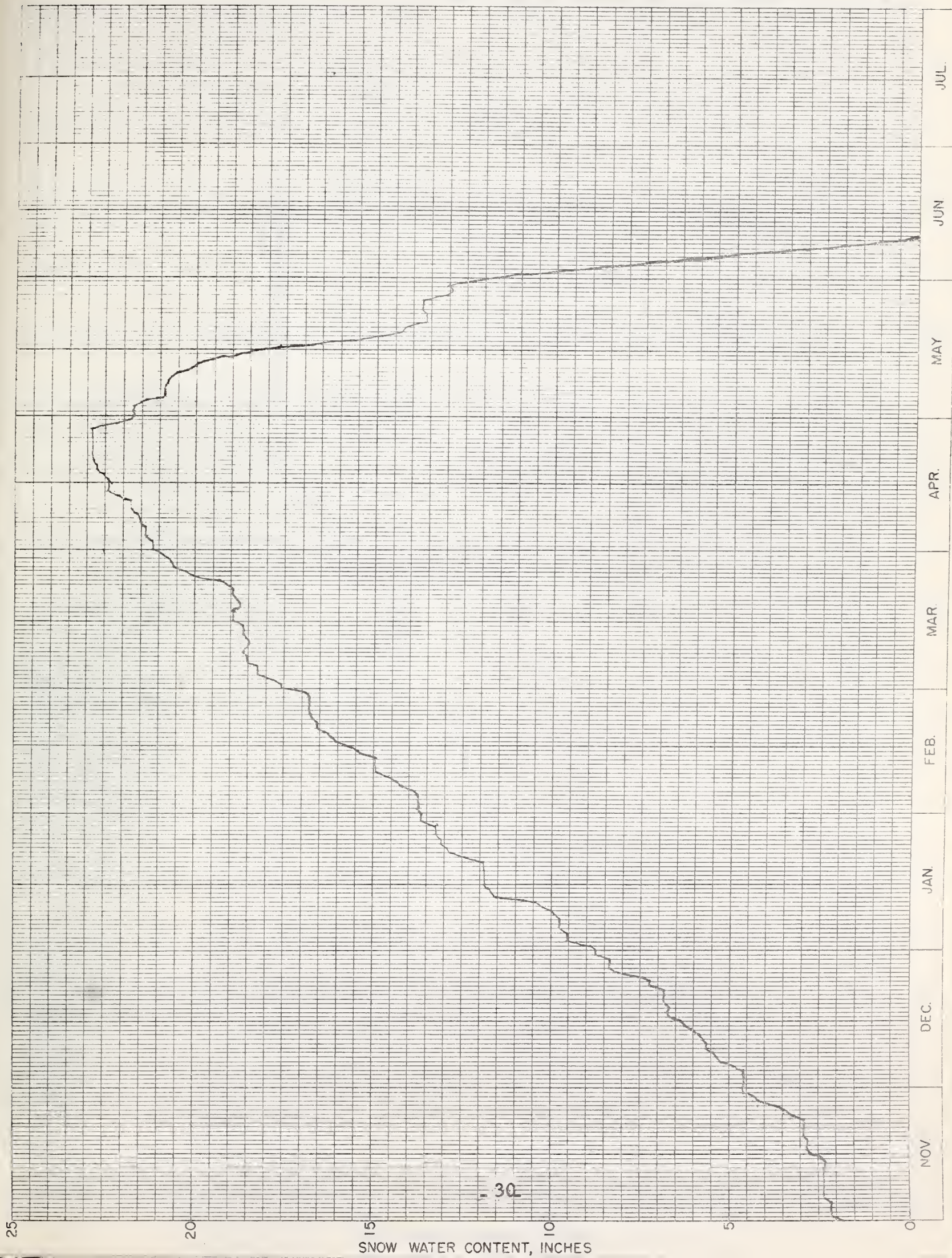
SNOW PILLOW DATA
WATER YEAR 1972

TAYLOR PEAKS

No. 11D13

Elev. 8500'

Drainage. Gallatin



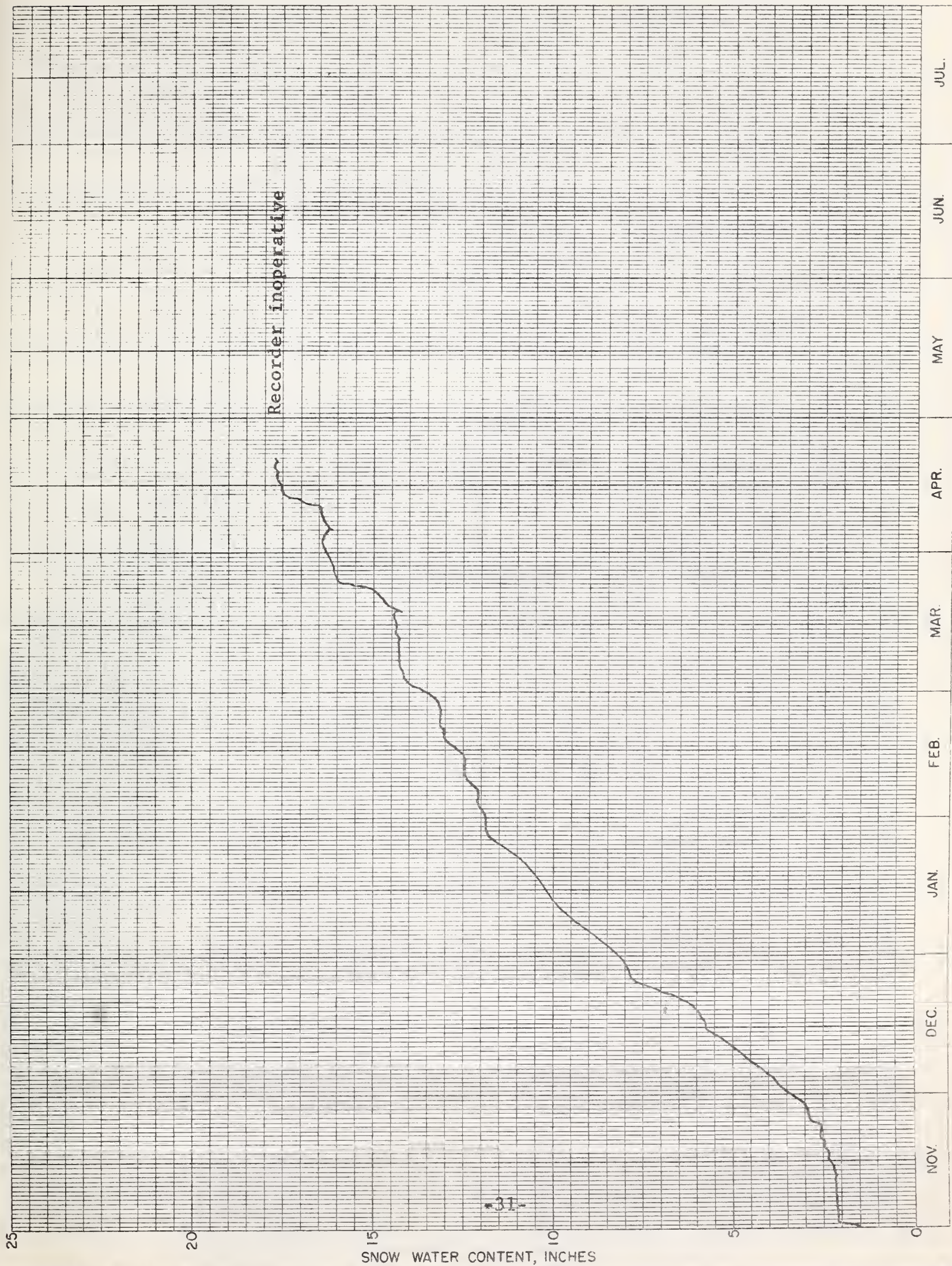
SNOW PILLOW DATA
WATER YEAR 1972

TEPEE CREEK

No. 11E24

Elev. 8000'

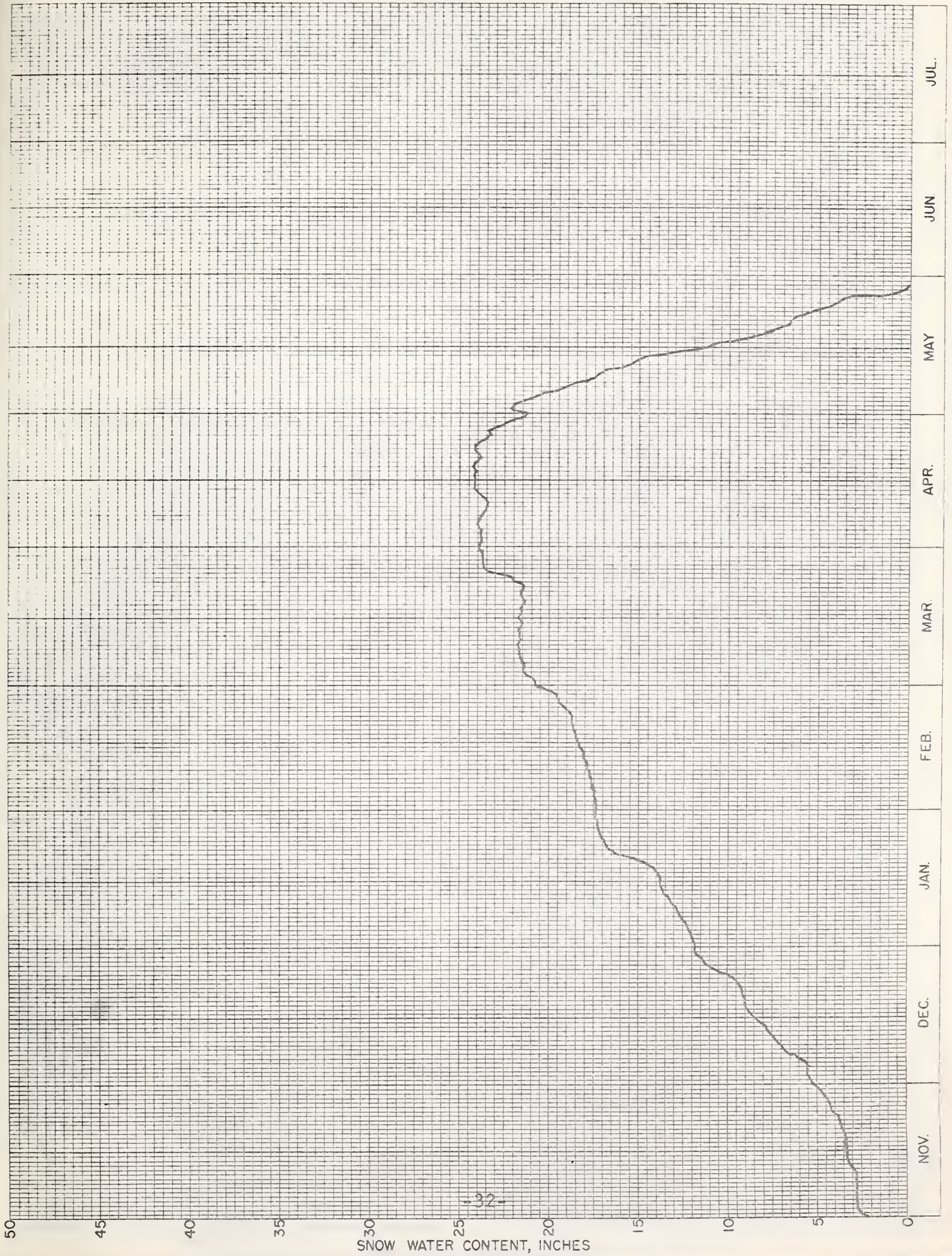
Drainage. Gallatin



SNOW PILLOW DATA
WATER YEAR 1972

WHISKEY CREEK

No. 11E30 Elev. 6800' Drainage: Gallatin



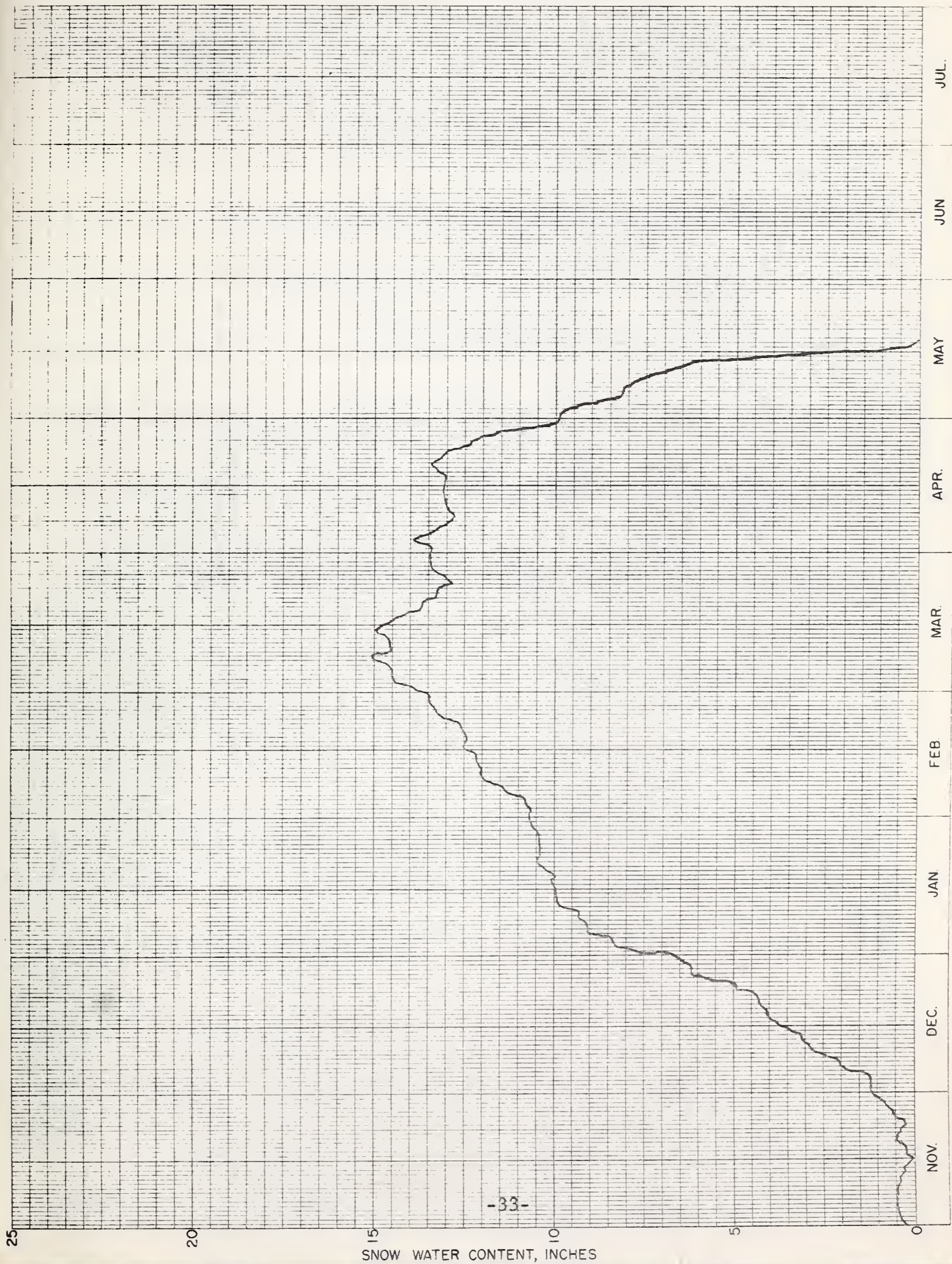
SNOW PILLOW DATA
WATER YEAR 1972

DEADMAN CREEK

No. 10C09

Elev. 6450'

Drainage. Missouri Main Stem



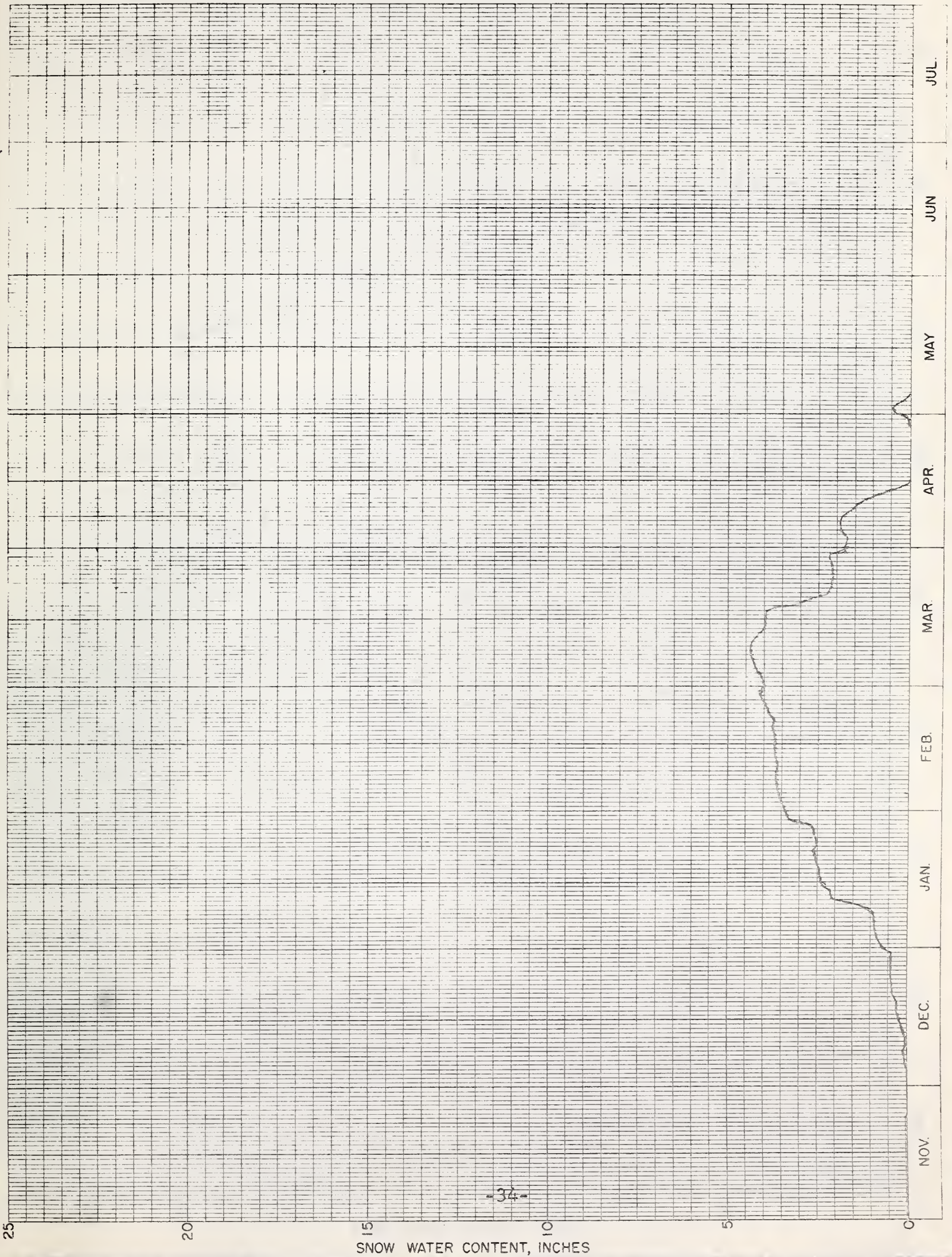
SNOW PILLOW DATA
WATER YEAR 1972

ROCKY BOY

No. 9A01

Elev. 4700'

Drainage. Milk



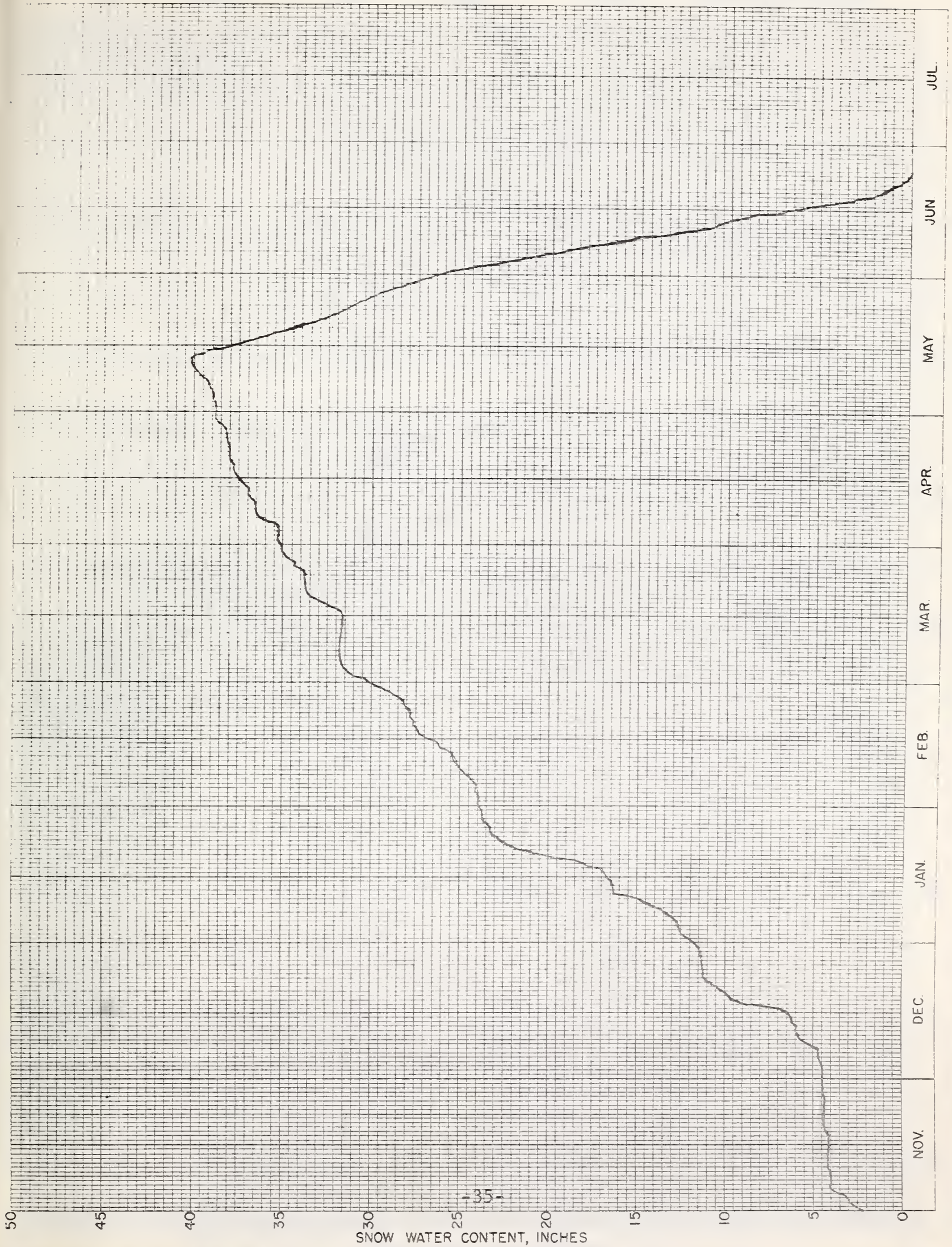
SNOW PILLOW DATA
WATER YEAR 1972

MOUNT LOCKHART

No. 12B12

Elev. 6400'

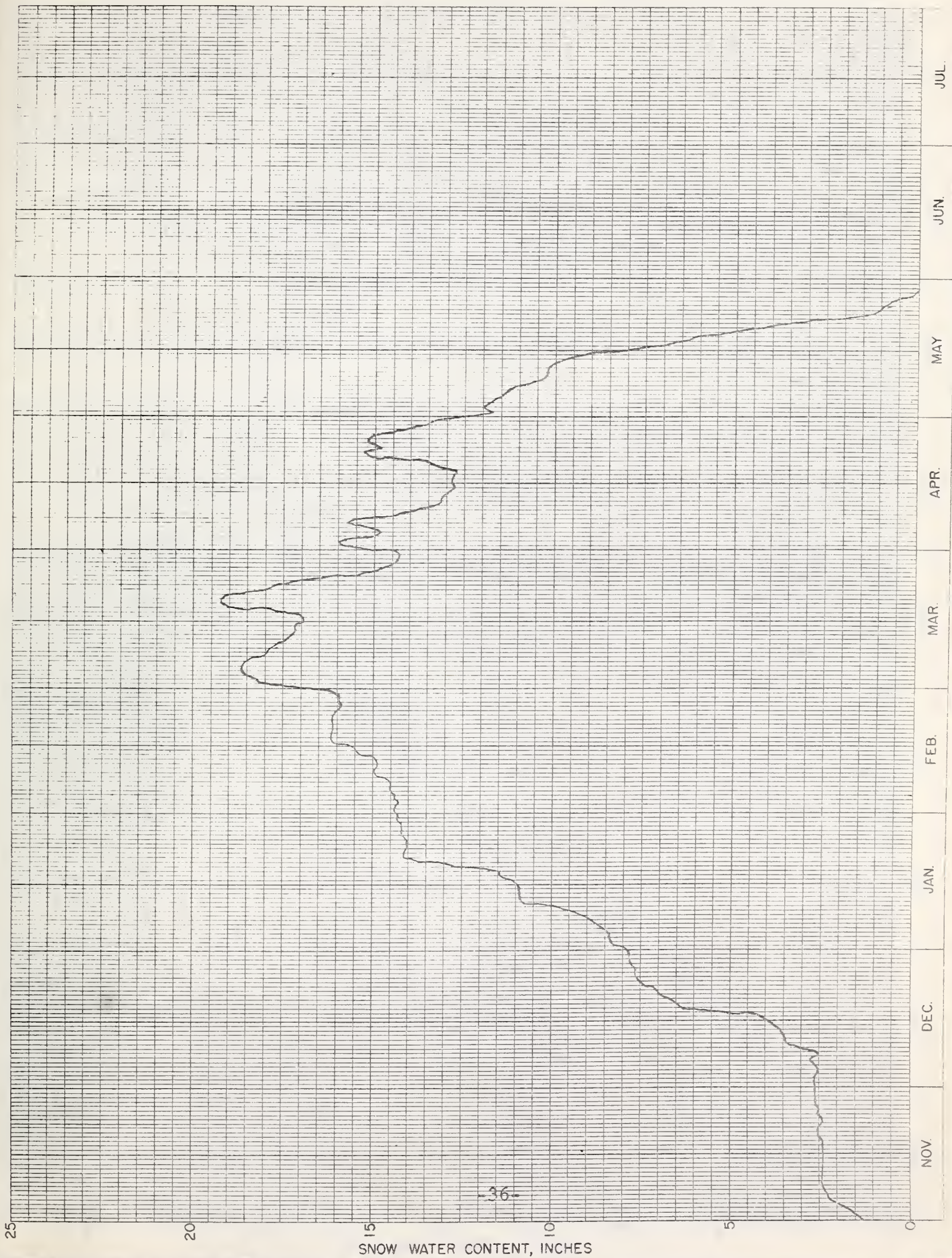
Drainage: Sun-Teton-Marias



SNOW PILLOW DATA
WATER YEAR 1972

WALDRON

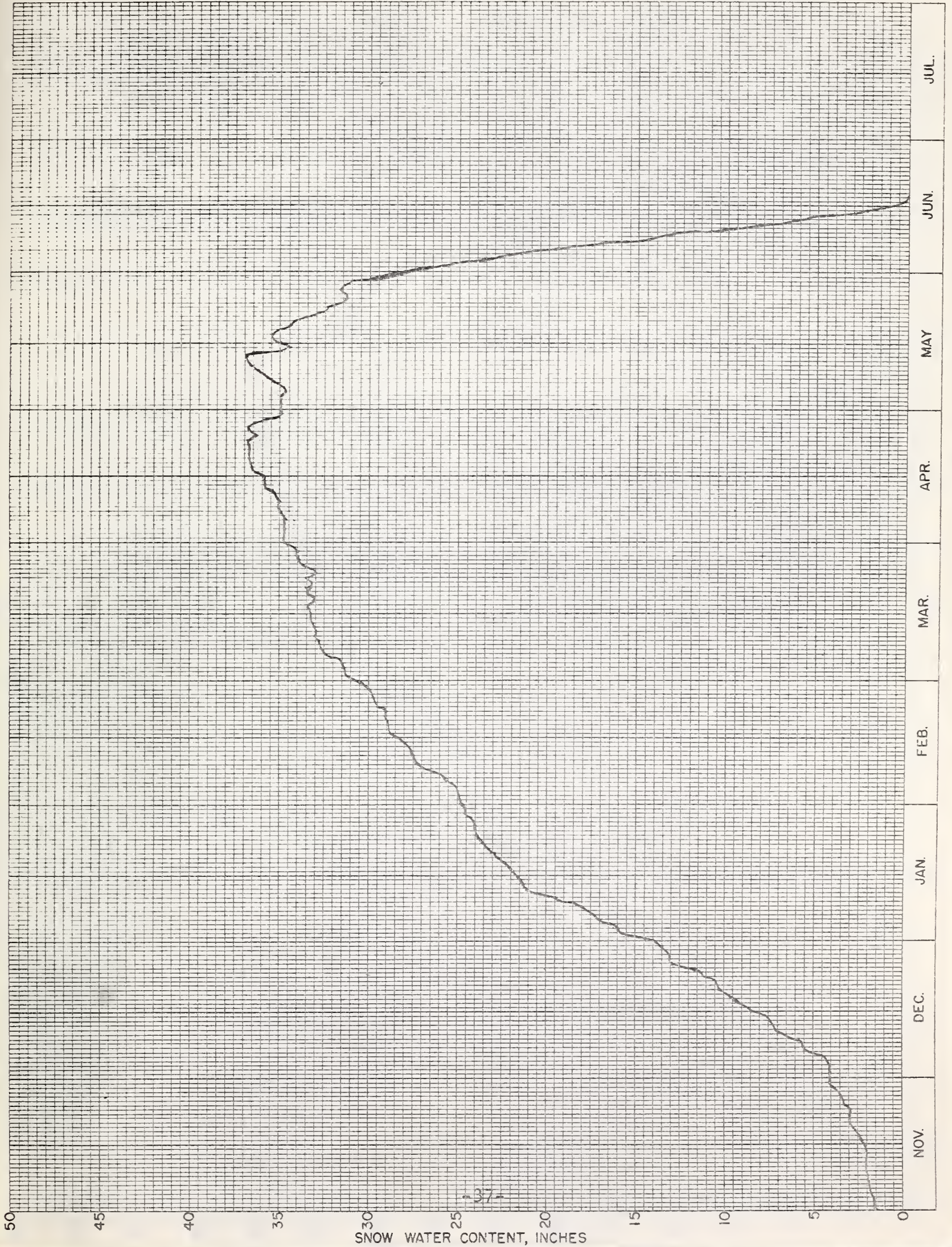
No. 12B13 Elev. 5600' Drainage. Sun-Teton-Marias



SNOW PILLOW DATA
WATER YEAR 1972

SPUR PARK

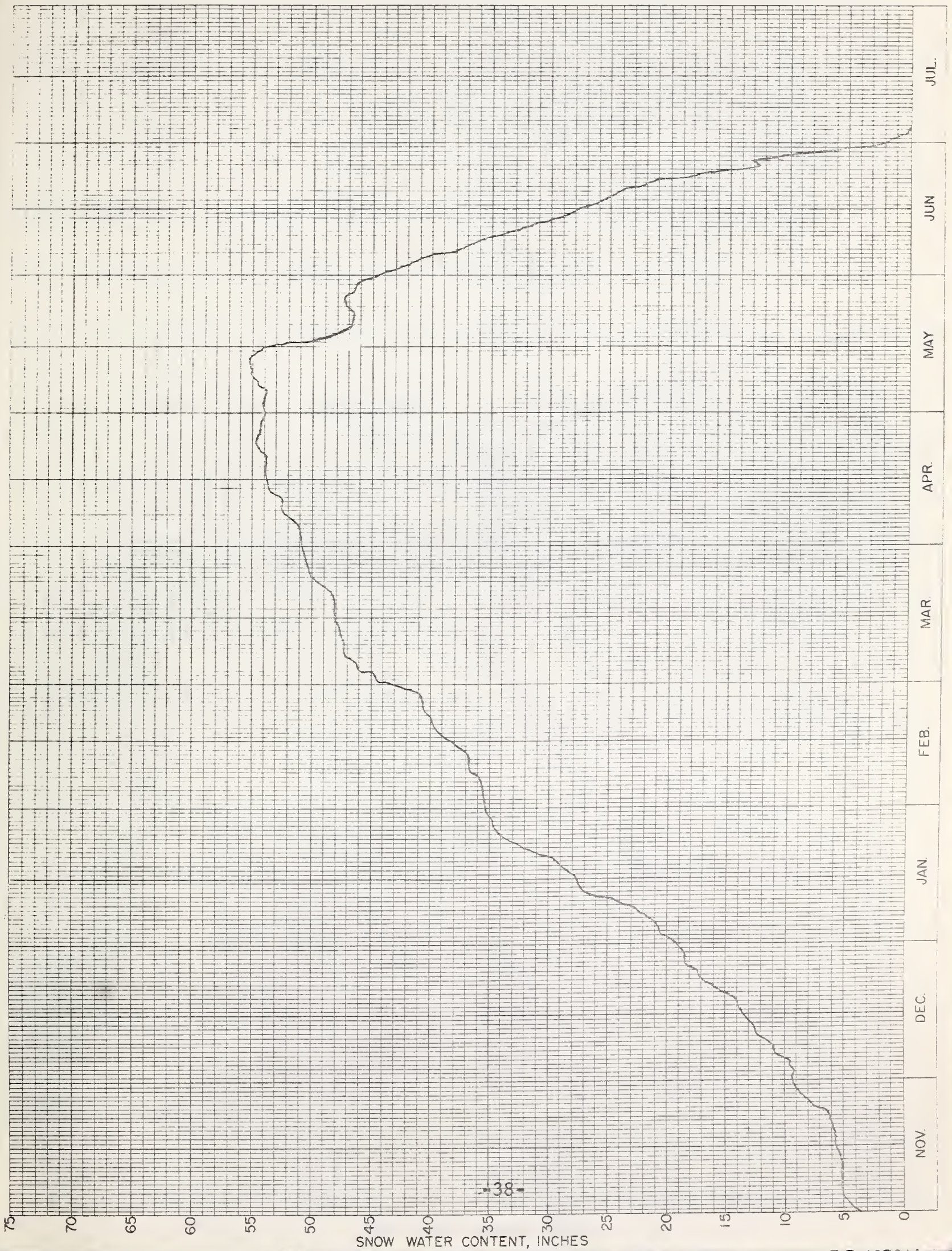
No. 10C06 Elev. 8000' Drainage: Judith



SNOW PILLOW DATA
WATER YEAR 1972

FISHER CREEK

No. 9D06 Elev. 9100' Drainage: Yellowstone



SNOW PILLOW DATA
WATER YEAR 1972

NORTHEAST ENTRANCE

No

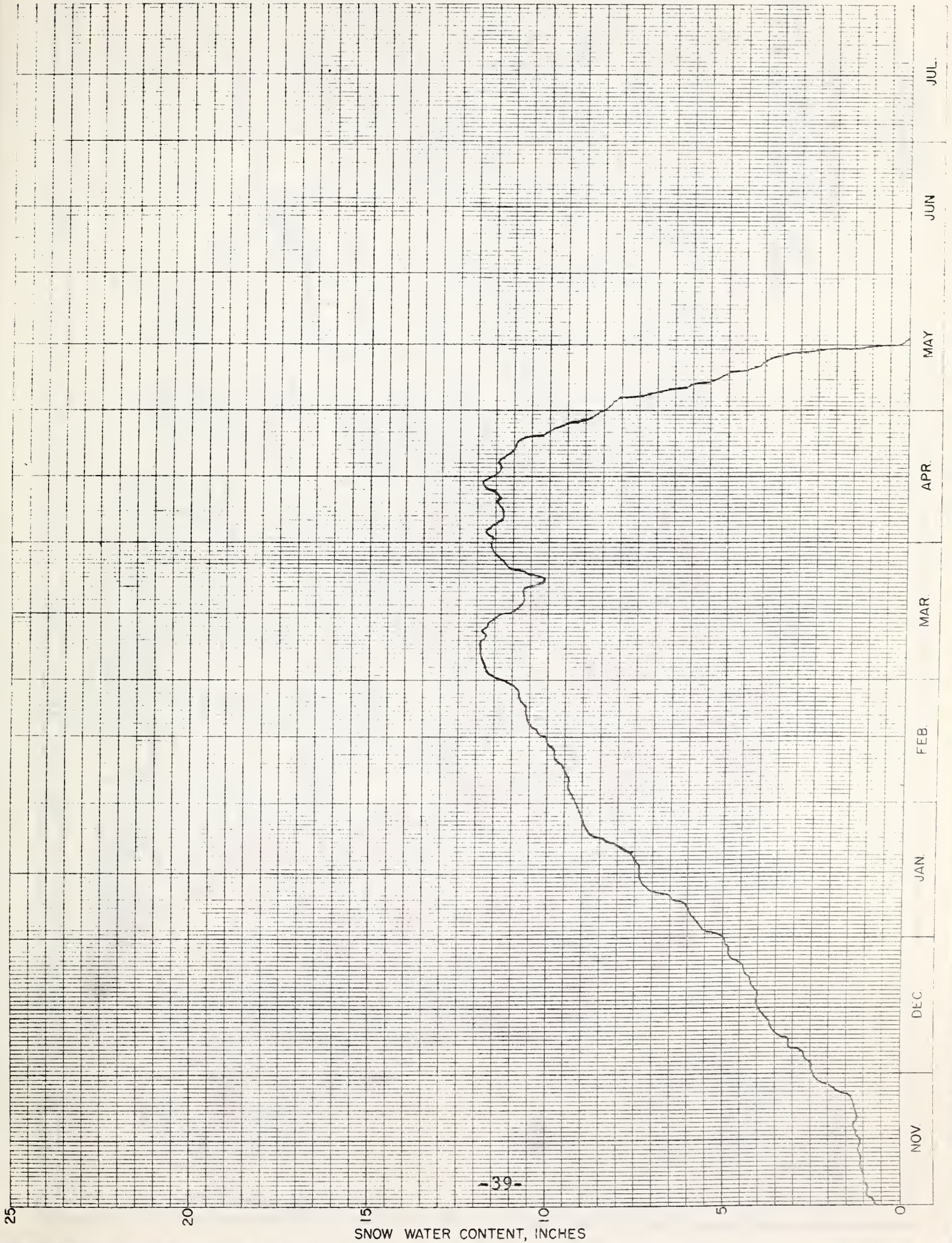
10D07

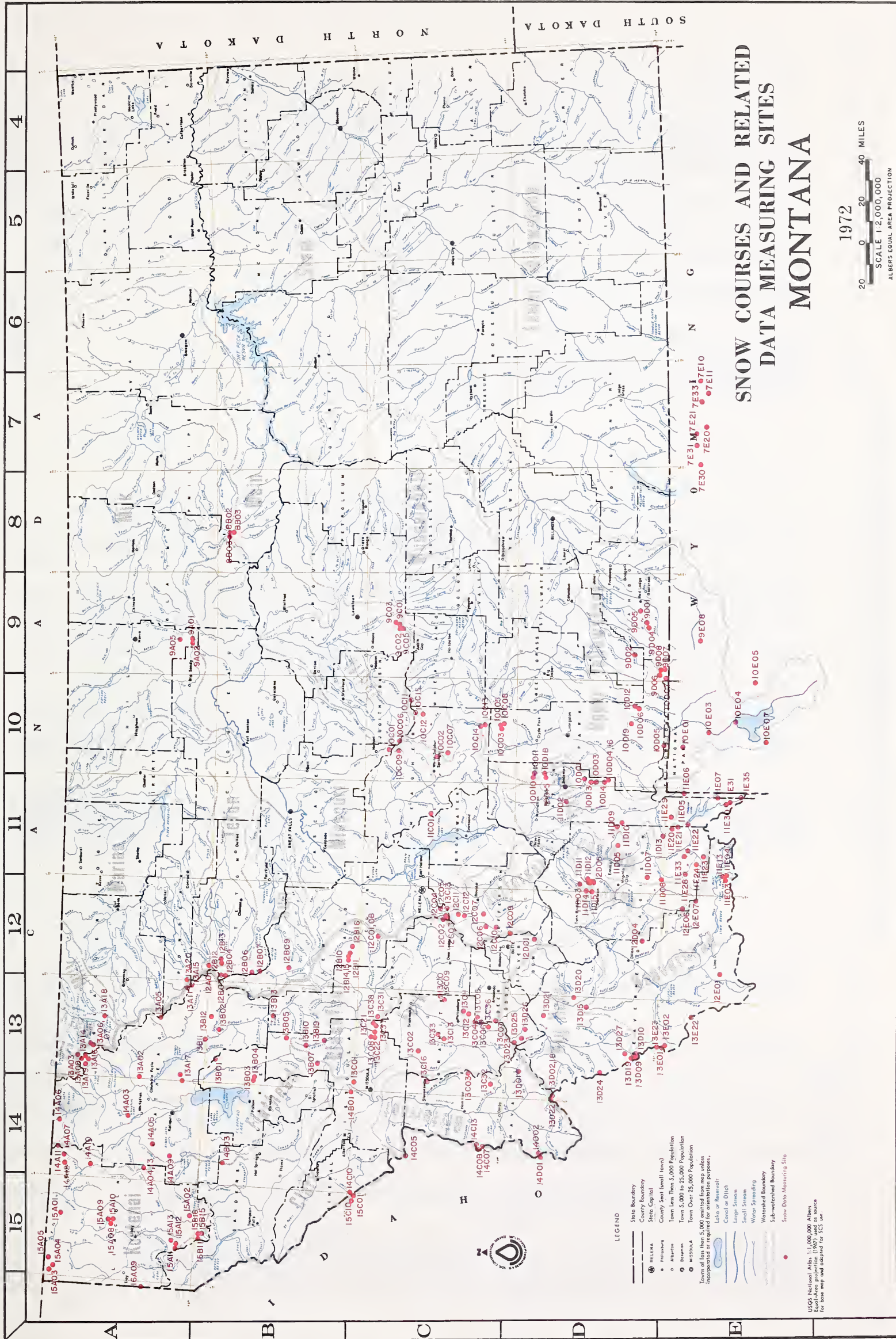
Elev.

7350'

Drainage.

Yellowstone





SNOW COURSES AND RELATED DATA MEASURING SITES MONTANA

1972
20 0 20 40 MILES
SCALE 1:2,000,000
ALBERS EQUAL AREA PROJECTION

- LEGEND**
- State Boundary
 - County Boundary
 - State Capital
 - County Seat (small town)
 - Town less than 5,000 Population
 - Town 5,000 to 25,000 Population
 - Town Over 25,000 Population
 - Towns of less than 5,000 omitted from map unless incorporated or required for orientation purposes.
 - City or town
 - Canal or Ditch
 - Large Stream
 - Small Stream
 - Water Spreading
 - Watered Boundary
 - Sub-watershed Boundary
 - Snow Data Measuring Site

USGS National Atlas 1:500,000 Albers
USGS National Atlas 1:500,000 Albers
for base map and adapted for SCS use.

Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Energy, Mines and Resources, Alberta
Water Investigations Branch, Department of Lands,
Forests, and Water Resources, British Columbia

Federal:

Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
Soil Conservation Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of the Interior
Bonneville Power Administration
Bureau of Indian Affairs
Bureau of Reclamation
Bureau of Sports Fisheries and Wildlife
Geological Survey
National Park Service

STATE

Montana Conservation Districts
Montana Water Resources Board
Montana State University - Agricultural Experiment
Station
North Montana Branch Station - Agricultural Experiment
Station
University of Montana - School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable
information for snow survey reports. Their cooperation
is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

P.O. BOX 98
BOZEMAN, MONTANA 59715

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300



POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE

FIRST CLASS MAIL

USDA - NATIONAL AGRICULTURAL LIBRARY
CURRENT SERIAL RECORD
BELTSVILLE, MD. 20705

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*